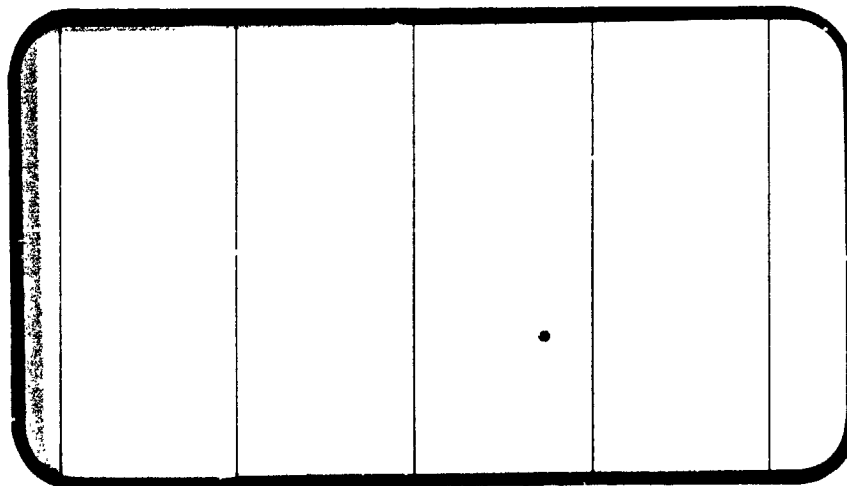




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AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANAGEMENT services

SPACE DIVISION



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EFFECTS OF AIR BREATHING ENGINE PLUMES

ON SSV ORBITER SUBSONIC

WING PRESSURE DISTRIBUTION (OA57B)

VOLUME 2 of 2

By

T. Soard
Rockwell International

Prepared under NASA Contract Number NAS9-13247

by

Data Management Services
Chrysler Corporation Space Division
New Orleans, La. 70189

for

Engineering Analysis Division

Johnson Space Center
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Test Data: 18 through 23 September 1973

FACILITY COORDINATOR:

R. B. Russell
Rockwell International, B-1 Division
Los Angeles International Airport
Los Angeles, California 90009

Phone: (213) 617-9151 Ext. 3343

PROJECT ENGINEER:

T. Soard
Rockwell International, B-1 Division
Los Angeles International Airport
Los Angeles, California 90009

Phone: (213) 617-9151 Ext. 3343

DATA MANAGEMENT SERVICES:

Prepared by: Liaison--D. A. Sarver, M. J. Lanfranco
 Operations--R. B. Lowe

Reviewed by: D. E. Poucher, J. L. Glynn

Approved: N. D. Kemp
N. D. Kemp, Manager
Data Management Services

Concurrence: R. D. Swider
R. D. Swider, Manager
Flight Technology Branch

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EFFECTS OF AIR BREATHING ENGINE PLUMES
ON SSV ORBITER SUBSONIC
WING PRESSURE DISTRIBUTION (OA57B)

By T. Soard*

ABSTRACT

The data presented in this report were obtained during wind tunnel tests of a 0.0405-scale model of the -89B Ferry Configuration of the Space Shuttle Vehicle Orbiter. These tests were conducted in the Rockwell International Low Speed Wind Tunnel (NAAL) during the time period of September 18 to September 23, 1973. NASA Space Shuttle test designation was OA57B.

The primary test objective was to investigate orbiter wing pressure distributions resulting from nacelle plumes above and below the wing. Three six-engine nacelle configurations were tested. One configuration had a twin-podded nacelle mounted above each wing and the others had one mounted below each wing. Both had a centerline twin-podded nacelle mounted below the wing. Wing pressure distribution was determined by locating static pressure bugs on the upper and lower surfaces of the left wing. Pressure bugs were also located on the upper and lower surfaces of the body flap and on the B_{12} afterbody fairing when it was installed. Base and balance cavity pressures were recorded and a strain gage instrumented beam in the right wing measured elevon hinge moments and normal forces.

Testing was conducted at 3 ground plane heights ($h/b = 0.039, 0.125,$

* Rockwell International

and 0.286), with 4 engine pressure ratios ($F_{TN}/P_{SO} = 0, 1.0, 1.3, \text{ and } 1.5$), with elevon deflections of 0° and $\pm 15^\circ$, and with body flap deflections of $-18^\circ, 0^\circ, \text{ and } +20^\circ$. The nominal angle of attack range was -4° to $+20^\circ$ with an angle of sideslip of 0° . A Mach number of 0.200 was maintained throughout the test.

The model was mounted on a 2.5-inch diameter dummy balance using the W-1052-5 sting and W-1092-A-2 adapter, locating the center of rotation at the trailing edge of the root chord.

This report is presented in two volumes. Volume 1 contains the data figures and Volume 2 contains the tabulated source data.

TABLE OF CONTENTS

<u>VOLUME 2</u>	<u>Page</u>
ABSTRACT	iii
INDEX OF MODEL FIGURES	2
INDEX OF DATA FIGURES	3
NOMENCLATURE	13
CONFIGURATIONS INVESTIGATED	16
TEST FACILITY	18
DATA REDUCTION	19
TABLES	
I. TEST CONDITIONS	23
II. DATA SET/RUN NUMBER COLLATION SUMMARY	24
III. MODEL DIMENSIONAL DATA	29
IV. WING PRESSURE CONSTANTS AND LOCATIONS	38
V. BODY FLAP AND AFTERBODY PRESSURE CONSTANTS	39
FIGURES	
MODEL	40
TABULATED SOURCE DATA	49

INDEX OF MODEL FIGURES

Figure	Title	Page
1	Axis systems.	40
2	Model sketches.	
a.	J ₄₀ and J ₄₁ Nacelle configuration.	41
b.	J ₄₂ Nacelle configuration.	42
c.	Pressure bug location.	43
3	Model photographs.	
a.	Model installation.	44
b.	Pressure bug installation, upper surface of left wing.	44
c.	Right elevon showing strain gage instrumented beam.	45
d.	Pressure bug location, upper surface of body flap.	45
e.	J ₄₀ configuration of ABPS.	46
f.	J ₄₁ configuration of ABPS.	46
g.	J ₄₂ configuration of ABPS.	47
h.	J ₄₂ left view.	47
i.	J ₄₂ top view.	48

INDEX OF DATA FIGURES

FIGURE NUMBER	TITLE	SCHEDULE OF COEFFICIENTS PLOTTED			CONDITIONS VARYING	PAGES
		(A)	(B)	(C)		
Fig. 4	ELEVON EFFECTIVENESS WITH J40 AT NOZZLE EXIT PRESSURE RATIO OF 1.0	(A)	H/B			1-3
Fig. 5	ELEVON EFFECTIVENESS WITH J40 AT NOZZLE EXIT PRESSURE RATIO OF 1.3	(A)	H/B			4-6
Fig. 6	ELEVON EFFECTIVENESS WITH J40 AT NOZZLE EXIT PRESSURE RATIO OF 1.5	(A)	H/B			7-9
Fig. 7	ELEVON EFFECTIVENESS WITH J41 AT NOZZLE EXIT PRESSURE RATIO OF 1.0	(A)	H/B			10-12
Fig. 8	ELEVON EFFECTIVENESS WITH J41 AT NOZZLE EXIT PRESSURE RATIO OF 1.3	(A)	H/B			13-15
Fig. 9	ELEVON HINGE MOMENT AND NORMAL FORCE WITH J40 AT NOZZLE EXIT PR OF 1.0	(B)	H/B and ELEVON			16-18
Fig. 10	ELEVON HINGE MOMENT AND NORMAL FORCE WITH J40 AT NOZZLE EXIT PR OF 1.3	(B)	H/B and ELEVON			19-21
Fig. 11	ELEVON HINGE MOMENT AND NORMAL FORCE WITH J40 AT NOZZLE EXIT PR OF 1.5	(B)	H/B and ELEVON			22-24
Fig. 12	ELEVON HINGE MOMENT AND NORMAL FORCE WITH J41 AT NOZZLE EXIT PR OF 1.0	(B)	H/B and ELEVON			25-26
Fig. 13	ELEVON HINGE MOMENT AND NORMAL FORCE WITH J41 AT NOZZLE EXIT PR OF 1.3	(B)	H/B and ELEVON			27-28
Fig. 14	ELEVON HINGE MOMENT AND NORMAL FORCE WITH J42 AT NOZZLE EXIT PR OF 1.0	(B)	H/B			29

INDEX OF DATA FIGURES (Continued)

FIGURE NUMBER	TITLE	SCHEDULE OF COEFFICIENTS PLOTTED			CONDITIONS VARYING	PAGES
		(B)	(C)	(D)		
Fig. 15	ELEVON HINGE MOMENT AND NORMAL FORCE WITH J42 AT NOZZLE EXIT PR OF 1.3	(B)			H/B	30
Fig. 16	ELEVON HINGE MOMENT AND NORMAL FORCE WITH J42 AT NOZZLE EXIT PR OF 1.5	(B)			H/B	31
Fig. 17	BODY FLAP PRESSURE COEFFICIENTS WITH J40, -15 ELEVON AND -18 BDFLAP	(C)			PTN/P and H/B	32-40
Fig. 18	BODY FLAP PRESSURE COEFFICIENTS WITH J40, 0 ELEVON AND -18 BDFLAP	(C)			PTN/P and H/B	41-49
Fig. 19	BODY FLAP PRESSURE COEFFICIENTS WITH J40, 0 ELEVON AND 0 BDFLAP	(C)			PTN/P and H/B	50-55
Fig. 20	BODY FLAP PRESSURE COEFFICIENTS WITH J40, 0 ELEVON AND 20 BDFLAP	(C)			PTN/P and H/B	56-61
Fig. 21	BODY FLAP PRESSURE COEFFICIENTS WITH J40, 15 ELEVON AND -18 BDFLAP	(C)			PTN/P and H/B	62-70
Fig. 22	BODY FLAP PRESSURE COEFFICIENTS WITH J41, 0 ELEVON AND -18 BDFLAP	(C)			PTN/P and H/B	71-76
Fig. 23	BODY FLAP PRESSURE COEFFICIENTS WITH J41, 15 ELEVON AND -18 BDFLAP	(C)			PTN/P and H/B	77-82
Fig. 24	BODY FLAP PRESSURE COEFFICIENTS WITH J42, 0 ELEVON AND -18 BDFLAP	(C)			PTN/P and H/B	83-91
Fig. 25	INTEGRATED FORCE COEFFICIENTS WITH J40, -15 ELEVON AND -18 BDFLAP	(D)			PTN/P and H/B	92-100

INDEX OF DATA FIGURES (Continued)

FIGURE NUMBER	TITLE	SCHEDULE OF COEFFICIENTS PLOTTED			CONDITIONS VARYING	PAGES
		(D)	(D)	(D)		
Fig. 26	INTEGRATED FORCE COEFFICIENTS WITH J40, 0 ELEVON AND -18 BDFLAP	(D)			PTN/P and H/B	101-109
Fig. 27	INTEGRATED FORCE COEFFICIENTS WITH J40, 0 ELEVON AND 0 BDFLAP	(D)			PTN/P and H/B	110-115
Fig. 28	INTEGRATED FORCE COEFFICIENTS WITH J40, 0 ELEVON AND 20 BDFLAP	(D)			PTN/P and H/B	116-121
Fig. 29	INTEGRATED FORCE COEFFICIENTS WITH J40, 15 ELEVON AND -18 BDFLAP	(D)			PTN/P and H/B	122-130
Fig. 30	INTEGRATED FORCE COEFFICIENTS WITH J41, 0 ELEVON AND -18 BDFLAP	(D)			PTN/P and H/B	131-139
Fig. 31	INTEGRATED FORCE COEFFICIENTS WITH J41, 15 ELEVON AND -18 BDFLAP	(D)			PTN/P and H/B	140-148
Fig. 32	INTEGRATED FORCE COEFFICIENTS WITH J42, 0 ELEVON AND -18 BDFLAP	(D)			PTN/P and H/B	149-157
Fig. 33	BASE PRESSURE AND AXIAL FORCE WITH J40, -15 ELEVON AND -18 BDFLAP	(E)			PTN/P and H/B	158-160
Fig. 34	BASE PRESSURE AND AXIAL FORCE WITH J40, 0 ELEVON AND -18 BDFLAP	(E)			PTN/P and H/B	161-163
Fig. 35	BASE PRESSURE AND AXIAL FORCE WITH J40, 0 ELEVON AND 0 BDFLAP	(E)			PTN/P and H/B	164-165
Fig. 36	BASE PRESSURE AND AXIAL FORCE WITH J40, 0 ELEVON AND 20 BDFLAP	(E)			PTN/P and H/B	166-167

INDEX OF DATA FIGURES (Continued)

FIGURE NUMBER	TITLE	SCHEDULE OF COEFFICIENTS PLOTTED		CONDITIONS VARYING	PAGES
Fig. 37	BASE PRESSURE AND AXIAL FORCE WITH J40, 15 ELEVON AND 18 BDFLAP	(E)		PTN/P and H/B	168-170
Fig. 38	BASE PRESSURE AND AXIAL FORCE WITH J41, 0 ELEVON AND -18 BDFLAP	(E)		PTN/P and H/B	171-173
Fig. 39	BASE PRESSURE AND AXIAL FORCE WITH J41, 15 ELEVON AND -18 BDFLAP	(E)		PTN/P and H/B	174-176
Fig. 40	BASE PRESSURE AND AXIAL FORCE WITH J42, 0 ELEVON AND -18 BDFLAP	(E)		PTN/P and H/B	177-179
Fig. 41	INTEGRATED AFTERBODY FORCE COEFFICIENTS	(F)		PTN/P	180-181
Fig. 42	WING UPPER SURFACE PRESSURE SPANWISE DISTR WITH J40, PTN/P = 1.0, 0 ELEVON	(G)		X/C, ALPHA and H/B	182-186
Fig. 43	WING UPPER SURFACE PRESSURE SPANWISE DISTR WITH J40, PTN/P = 1.3, 0 ELEVON	(G)		X/C, ALPHA and H/B	187-191
Fig. 44	WING UPPER SURFACE PRESSURE SPANWISE DISTR WITH J40, PTN/P = 1.5, 0 ELEVON	(G)		X/C, ALPHA and H/B	192-196
Fig. 45	WING UPPER SURFACE PRESSURE SPANWISE DISTR WITH J40, PTN/P = 1.0, 15 ELEVON	(G)		X/C, ALPHA and H/B	197-201
Fig. 46	WING UPPER SURFACE PRESSURE SPANWISE DISTR WITH J40, PTN/P = 1.3, 15 ELEVON	(G)		X/C, ALPHA and H/B	202-206
Fig. 47	WING UPPER SURFACE PRESSURE SPANWISE DISTR WITH J40, PTN/P = 1.5, 15 ELEVON	(G)		X/C, and	207-211
Fig. 48	WING UPPER SURFACE PRESSURE SPANWISE DISTR WITH J41, PTN/P = 1.0, 0 ELEVON	(G)		X/ and	212-215

INDEX OF DATA FIGURES (Continued)

FIGURE NUMBER	TITLE	SCHEDULE OF COEFFICIENTS PLOTTED	CONDITIONS VARYING	PAGES
Fig. 49	WING UPPER SURFACE PRESSURE SPANWISE DISTR WITH J41, PTN/P = 1.3, 0 ELEVON	(G)	X/C, ALPHA and H/B	216-220
Fig. 50	WING UPPER SURFACE PRESSURE SPANWISE DISTR WITH J42, PTN/P = 1.0, 0 ELEVON	(G)	X/C, ALPHA and H/B	221-225
Fig. 51	WING UPPER SURFACE PRESSURE SPANWISE DISTR WITH J42, PTN/P = 1.3, 0 ELEVON	(G)	X/C, ALPHA and H/B	226-230
Fig. 52	WING UPPER SURFACE PRESSURE SPANWISE DISTR WITH J42, PTN/P = 1.5, 0 ELEVON	(G)	X/C, ALPHA and H/B	231-235
Fig. 53	WING LOWER SURFACE PRESSURE SPANWISE DISTR WITH J40, PTN/P = 1.0, 0 ELEVON	(G)	X/C, ALPHA and H/B	236-240
Fig. 54	WING LOWER SURFACE PRESSURE SPANWISE DISTR WITH J40, PTN/P = 1.3, 0 ELEVON	(G)	X/C, ALPHA and H/B	241-245
Fig. 55	WING LOWER SURFACE PRESSURE SPANWISE DISTR WITH J40, PTN/P = 1.5, 0 ELEVON	(G)	X/C, ALPHA and H/B	246-250
Fig. 56	WING LOWER SURFACE PRESSURE SPANWISE DISTR WITH J40, PTN/P = 1.0, 15 ELEVON	(G)	X/C, ALPHA and H/B	251-255
Fig. 57	WING LOWER SURFACE PRESSURE SPANWISE DISTR WITH J40, PTN/P = 1.3, 15 ELEVON	(G)	X/C, ALPHA and H/B	256-260
Fig. 58	WING LOWER SURFACE PRESSURE SPANWISE DISTR WITH J40, PTN/P = 1.5, 15 ELEVON	(G)	X/C, ALPHA and H/B	261-265
Fig. 59	WING LOWER SURFACE PRESSURE SPANWISE DISTR WITH J41, PTN/P = 1.0, 0 ELEVON	(G)	X/C, ALPHA and H/B	266-269

INDEX OF DATA FIGURES (Continued)

FIGURE NUMBER	TITLE	SCHEDULE OF COEFFICIENTS PLOTTED			CONDITIONS VARYING	PAGES
Fig. 60	WING LOWER SURFACE PRESSURE SPANWISE DISTR WITH J41, PTN/P = 1.3, 0 ELEVON	(G)			X/C, ALPHA and H/B	270-274
Fig. 61	WING LOWER SURFACE PRESSURE SPANWISE DISTR WITH J42, PTN/P = 1.0, 0 ELEVON	(G)			X/C, ALPHA and H/B	275-279
Fig. 62	WING LOWER SURFACE PRESSURE SPANWISE DISTR WITH J42, PTN/P = 1.3, 0 ELEVON	(C)			Y/C, ALPHA and H/B	280-284
Fig. 63	WING LOWER SURFACE PRESSURE SPANWISE DISTR WITH J42, PTN/P = 1.5, 0 ELEVON	(G)			X/C, ALPHA and H/B	285-289
Fig. 64	WING UPPER SURFACE PRESSURE CHORDWISE DISTR WITH J40, PTN/P = 1.0, 0 ELEVON	(H)			2Y/B, ALPHA and H/B	290-294
Fig. 65	WING UPPER SURFACE PRESSURE CHORDWISE DISTR WITH J40, PTN/P = 1.3, 0 ELEVON	(H)			2Y/B, ALPHA and H/B	295-299
Fig. 66	WING UPPER SURFACE PRESSURE CHORDWISE DISTR WITH J40, PTN/P = 1.5, 0 ELEVON	(H)			2Y/B, ALPHA and H/B	300-304
Fig. 67	WING UPPER SURFACE PRESSURE CHORDWISE DISTR WITH J40, PTN/P = 1.0, 15 ELEVON	(H)			2Y/B, ALPHA and H/B	305-309
Fig. 68	WING UPPER SURFACE PRESSURE CHORDWISE DISTR WITH J40, PTN/P = 1.3, 15 ELEVON	(H)			2Y/B, ALPHA and H/B	310-314
Fig. 69	WING UPPER SURFACE PRESSURE CHORDWISE DISTR WITH J40, PTN/P = 1.5, 15 ELEVON	(H)			2Y/B, ALPHA and H/B	315-319
Fig. 70	WING UPPER SURFACE PRESSURE CHORDWISE DISTR WITH J41, PTN/P = 1.0, 0 ELEVON	(H)			2Y/B, ALPHA and H/B	320-323

INDEX OF DATA FIGURES (Continued)

FIGURE NUMBER	TITLE	SCHEDULE OF COEFFICIENTS PLOTTED			CONDITIONS VARYING	PAGES
Fig. 71	WING UPPER SURFACE PRESSURE CHORDWISE DIST WITH J41, PTN/P = 1.3, 0 ELEVON	(H)			2Y/B, ALPHA and H/B	324-328
Fig. 72	WING UPPER SURFACE PRESSURE CHORDWISE DIST WITH J42, PTN/P = 1.0, 0 ELEVON	(H)			2Y/B, ALPHA and H/B	329-333
Fig. 73	WING UPPER SURFACE PRESSURE CHORDWISE DIST WITH J42, PTN/P = 1.3, 0 ELEVON	(H)			2Y/B, ALPHA and H/B	334-338
Fig. 74	WING UPPER SURFACE PRESSURE CHORDWISE DIST WITH J42, PTN/P = 1.5, 0 ELEVON	(H)			2Y/B, ALPHA AND H/B	339-343
Fig. 75	WING LOWER SURFACE PRESSURE CHORDWISE DIST WITH J40, PTN/P = 1.0, 0 ELEVON	(H)			2Y/B, ALPHA and H/B	344-348
Fig. 76	WING LOWER SURFACE PRESSURE CHORDWISE DIST WITH J40, PTN/P = 1.3, 0 ELEVON	(H)			2Y/B, ALPHA and H/B	349-353
Fig. 77	WING LOWER SURFACE PRESSURE CHORDWISE DIST WITH J40, PTN/P = 1.5, 0 ELEVON	(H)			2Y/B, ALPHA and H/B	354-358
Fig. 78	WING LOWER SURFACE PRESSURE CHORDWISE DIST WITH J40, PTN/P = 1.0, 15 ELEVON	(H)			2Y/B, ALPHA and H/B	359-363
Fig. 79	WING LOWER SURFACE PRESSURE CHORDWISE DIST WITH J40, PTN/P = 1.3, 15 ELEVON	(H)			2Y/B, ALPHA and H/B	364-368
Fig. 80	WING LOWER SURFACE PRESSURE CHORDWISE DIST WITH J40, PTN/P = 1.5, 15 ELEVON	(H)			2Y/B, ALPHA and H/B	369-373
Fig. 81	WING LOWER SURFACE PRESSURE CHORDWISE DIST WITH J41, PTN/P = 1.0, 0 ELEVON	(H)			2Y/B, ALPHA and H/B	374-377

INDEX OF DATA FIGURES (Continued)

FIGURE NUMBER	TITLE	SCHEDULE OF COEFFICIENTS PLOTTED		CONDITIONS VARYING	PAGES
Fig. 82	WING LOWER SURFACE PRESSURE CHORDWISE DIST WITH J41, PTN/P = 1.3, 0 ELEVON	(H)		2Y/B, ALPHA and H/B	378-382
Fig. 83	WING LOWER SURFACE PRESSURE CHORDWISE DIST WITH J42, PTN/P = 1.0, 0 ELEVON	(H)		2Y/B, ALPHA and H/B	383-387
Fig. 84	WING LOWER SURFACE PRESSURE CHORDWISE DIST WITH J42, PTN/P = 1.3, 0 ELEVON	(H)		2Y/B, ALPHA and H/B	388-392
Fig. 85	WING LOWER SURFACE PRESSURE CHORDWISE DIST WITH J42, PTN/P = 1.5, 0 ELEVON	(H)		2Y/B, ALPHA and H/B	393-397
Fig. 86	WING DIFFERENTIAL PRESSURE CHORDWISE DIST WITH J40, PTN/P = 1.0, 0 ELEVON	(I)		2Y/B, ALPHA and H/B	398-402
Fig. 87	WING DIFFERENTIAL PRESSURE CHORDWISE DIST WITH J40, PTN/P = 1.3, 0 ELEVON	(I)		2Y/B, ALPHA and H/B	403-407
Fig. 88	WING DIFFERENTIAL PRESSURE CHORDWISE DIST WITH J40, PTN/P = 1.5, 0 ELEVON	(I)		2Y/B, ALPHA and H/B	408-412
Fig. 89	WING DIFFERENTIAL PRESSURE CHORDWISE DIST WITH J40, PTN/P = 1.0, 15 ELEVON	(I)		2Y/B, ALPHA and H/B	413-417
Fig. 90	WING DIFFERENTIAL PRESSURE CHORDWISE DIST WITH J40, PTN/P = 1.3, 15 ELEVON	(I)		2Y/B, ALPHA and H/B	418-422
Fig. 91	WING DIFFERENTIAL PRESSURE CHORDWISE DIST WITH J40, PTN/P = 1.5, 15 ELEVON	(I)		2Y/B, ALPHA and H/B	423-427
Fig. 92	WING DIFFERENTIAL PRESSURE CHORDWISE DIST WITH J41, PTN/P = 1.0, 0 ELEVON	(I)		2Y/B, ALPHA and H/B	428-431

INDEX OF DATA FIGURES (Continued)

FIGURE NUMBER	TITLE	SCHEDULE OF COEFFICIENTS PLOTTED	CONDITIONS VARYING	PAGES
Fig. 93	WING DIFFERENTIAL PRESSURE CHORDWISE DIST WITH J41, PTN/P = 1.3, 0 ELEVON	(I)	2Y/B, ALPHA and H/B	432-436
Fig. 94	WING DIFFERENTIAL PRESSURE CHORDWISE DIST WITH J42, PTN/P = 1.0, 0 ELEVON	(I)	2Y/B, ALPHA and H/B	437-441
Fig. 95	WING DIFFERENTIAL PRESSURE CHORDWISE DIST WITH J42, PTN/P = 1.3, 0 ELEVON	(I)	2Y/B, ALPHA and H/B	442-446
Fig. 96	WING DIFFERENTIAL PRESSURE CHORDWISE DIST WITH J42, PTN/P = 1.5, 0 ELEVON	(I)	2Y/B, ALPHA and H/B	447-451
Fig. 97	PRESSURE DISTRIBUTION ON GROUND PLANE SURFACE WITH J40 AT PTN/P = 1.0	(J)	ALPHA, H/B and ELEVON	452-460
Fig. 98	PRESSURE DISTRIBUTION ON GROUND PLANE SURFACE WITH J40 AT PTN/P = 1.3	(J)	ALPHA, H/B and ELEVON	461-469
Fig. 99	PRESSURE DISTRIBUTION ON GROUND PLANE SURFACE WITH J40 AT PTN/P = 1.5	(J)	ALPHA, H/B and ELEVON	470-478
Fig. 100	PRESSURE DISTRIBUTION ON GROUND PLANE SURFACE WITH J41 AT PTN/P = 1.0	(J)	ALPHA, H/B and ELEVON	479-484
Fig. 101	PRESSURE DISTRIBUTION ON GROUND PLANE SURFACE WITH J41 AT PTN/P = 1.3	(J)	ALPHA, H/B and ELEVON	485-490
Fig. 102	PRESSURE DISTRIBUTION ON GROUND PLANE SURFACE WITH J42 AT PTN/P = 1.0	(J)	ALPHA and H/B	491-493

INDEX OF DATA FIGURES (Concluded)

FIGURE NUMBER	TITLE	SCHEDULE OF COEFFICIENTS PLOTTED	CONDITIONS VARYING	PAGES
Fig. 103	PRESSURE DISTRIBUTION ON GROUND PLANE SURFACE WITH J42 AT PTN/P = 1.3	(J)	ALPHA and H/B	494-496
Fig. 104	PRESSURE DISTRIBUTION ON GROUND PLANE SURFACE WITH J42 AT PTN/P = 1.5	(J)	ALPHA and H/B	497-499

SCHEDULE OF COEFFICIENTS PLOTTED:

- (A) CMWING, CMWING versus ELEVON
- (B) CMME, CNE versus ALP-1A
- (C) CPBF versus ALPHA
- (D) CMWING, CMWING, CNFLAP, CMFLAP, CNTOTL, CMTOTL versus ALPHA
- (E) CAB, CPBAVE versus ALPHA
- (F) CMABDY, CMABDY, CMTOTL, CNTOTL versus ALPHA
- (G) CP versus 2Y/B
- (H) CP versus X/C
- (I) DELCP versus X/C
- (J) CP versus X/L

NOMENCLATURE

<u>Symbol</u>	<u>SADSAC Symbol</u>	<u>Definition</u>
A		area of influence, ft^2
b	BREF	reference span, inches
C_A	CA	axial-force coefficient, axial force/qS
C_{HM}	CHME	hinge-moment coefficient, hinge moment/ $qS_E \bar{c}_E$
C_N	CN	normal-force coefficient, normal force/qS
C_m	CLM	pitching-moment coefficient, pitching moment/ $qS \bar{c}$
C_p	CP	pressure coefficient, $P_{sl} - P_{so}/q$
C.P.		center of pressure
GN_2		nitrogen gas
XCP		distance from MRP to C.P. on X axis, inches
\bar{c}	LREF	reference length, inches
h_{WTE}/b	H/B	ratio of height of wing trailing edge above ground plane to reference span
l		distance from MCR to static pressure tap
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis
P		pressure, psf
q	Q(PSF)	dynamic pressure, psf
S	SREF	reference area, ft^2
T		temperature, °R

NOMENCLATURE (Continued)

α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
γ		ratio of specific heats, $\gamma = 1.4$ for air
Λ_{LE}		leading edge sweep angle, degrees
	CMWING	wing pitching moment coefficient
	CNWING	wing normal force coefficient
δ_e	ELEVON	elevon, surface deflection angle positive deflection, trailing edge down; degrees
ΔC_p	DELCP	incremental pressure coefficient
CA_b	CAB or CABL	base force coefficient, $\frac{\text{base force}}{qS} - A_b (p_b - p_o)/qS$
C_{N_E}	CNE	elevon normal force coefficient
	CPBF	body flap pressure coefficient
	CPBAVE	average base pressure coefficient
	CNTOTL	total normal force coefficient
	CMTOTL	total pitching moment coefficient
C_p	CP	pressure coefficient $(p_1 - p_o)/q$
x/c	X/C	local chordwise position/wing chord length
$Y/b/2$	2Y/B or n	local spanwise position/wing semi-span
	X/L	local chordwise position/reference length
	CNFLAP	body flap normal coefficient
	CMFLAP	body flap pitching moment coefficient
	CNABDY	afterbody normal force coefficient
	CMABDY	afterbody pitching moment coefficient

NOMENCLATURE (Concluded)

P_{TN}/P_o	PTN/P	total nozzle pressure/free stream pressure
R_e	RN/L	Reynold's number, RN/L, millions per foot
δ_{BF}	BDFLAP	flap, surface deflection angle, positive
l_B		body length, inches
	CPSB	base pressure coefficient
	CPSAB	side afterbody pressure coefficient
	CPBAB	bottom afterbody pressure coefficient

SUBSCRIPTS

B	base
BC	balance cavity
E	elevon
HM	hinge moment
i	index, value at station i
L	lower surface
l	local
N	nozzle
o	freestream
p	pressure
s	static
T	total
U	upper

CONFIGURATIONS INVESTIGATED

The model tested was a 0.0405-scale representation of the Rockwell International-89B Space Shuttle Orbiter. The basic model was of the blended wing-body design utilizing a double delta wing ($75^\circ/45^\circ \Lambda_{LE}$), full span elevons (unswept hingeline), and a canopy. To complete the ferry configuration, air breathing engine nacelles were tested in locations above and below the wing as per SS-A00028. Jet plumes were simulated by exhausting compressed GN_2 from all nacelles.

All model components were per VL70-00089B configuration except for the fuselage lines from station 1307 aft and the engine nacelle groupings and locations.

The orbiter model was constructed of wood and aluminum and was mounted on the Task Corporation 2.5-inch Mk IX dummy balance. The following nomenclature was used to designate the various model components:

Component	Description
B ₁₆	-89B fuselage
B ₁₂	-89B fuselage with base fairing
C ₅	-89B canopy
F ₁	Body flap, ATP baseline
J ₄₀	Air breathing propulsion system consisting of a twin podded nacelle below each wing and a twin podded nacelle on the lower fuselage centerline
J ₄₁	Same as J ₄₀ except engines under wings extended aft an additional 90 inches full scale

()
J₄₂

Air breathing propulsion system consisting of a twin podded nacelle above each wing and a twin podded nacelle on the lower fuselage centerline

W₈₇

-89B double delta wing ($75^\circ/45^\circ \Lambda_{LE}$)

E₁₈

Elevon, full span split, used with wing W₈₇

TEST FACILITY

The North American Aerodynamics Laboratory (NAAL) 7.75 x 11.0-Foot Wind Tunnel is a continuous flow, closed circuit, single return type tunnel capable of speeds up to 200 miles per hour. The test section is vented to atmospheric pressure and is 7.75 x 11 feet wide by 12 feet in length. Power is supplied by a 1250 horsepower nacelle mounted synchronous motor driving a 19 foot, seven blade, laminated birch propeller. The airspeed is controlled by varying the degree of coupling between the motor and propeller by means of a magnetic clutch. A damping screen and honeycomb section in the settling chamber upstream from the contraction cone (ratio 7.53 to 1) minimizes turbulence in the test section. The NAAL Wind Tunnel has been in operation since June 1943 and calibrations are available over a wide range of test conditions.

Tests may be conducted using a variety of mounting systems, e.g., a single strut, double strut, sting strut, reflection plane, cable suspension, and two dimensional wall. Aerodynamic data may be measured by a planar type external balance. An automatic data Acquisition System is used to collect, multiplex, digitize, and record 50 channels of force and/or pressure data on magnetic tape. This data is then rapidly reduced and plotted using automatic data processing equipment and an automatic digital plotter.

DATA REDUCTION

Since only pressure distribution and elevon hinge data were required during the test period, the model was mounted on the Task Mk IX 2.5" dummy balance. Therefore no corrections were made for balance and sting deflection. But standard facility corrections for blockage were applied as required. A base and balance cavity axial force coefficient was calculated as presented below:

$$C_{A_{BC}} = - \left(\frac{P_{BC} - P_{so}}{q} \right) \left(\frac{A_{BC}}{S} \right)$$

and:

$$C_{A_{B1}} = - \left(\frac{P_B - P_{so}}{q} \right) \left(\frac{A_B}{S} \right), P_B = 1/5 (P_{B1} + \dots + P_{B5})$$

Elevon hinge moments and normal force coefficients were calculated in the following manner:

$$C_{HM} = \frac{HM_E}{q S_E \bar{c}_E}$$

where: HM_E = (gage output)x(calib. factor), in-lbs

S_E = Elevon area, ft^2

\bar{c}_E = M.A.C. of elevon, in

and:

$$C_{N_E} = \frac{HM_E}{q S (\bar{c}_E/2)}$$

S = Reference area, ft^2

DATA REDUCTION (Continued)

Static pressure coefficients were calculated as shown below:

$$C_{p_i} = \left(\frac{P_{s_i} - P_{s_o}}{q} \right)$$

$$\text{Wing } i_{\text{MAX}} = 30$$

$$\text{Body flap } i_{\text{MAX}} = 3$$

$$\text{Afterbody } i_{\text{MAX}} = 3$$

where:

$$P_{s_i} = \text{Local static pressure, psf}$$

$$P_{s_o} = \text{Tunnel static pressure, psf}$$

$$q = \text{Tunnel dynamic pressure, psf}$$

Wing panel, body flap, afterbody, and total normal force and pitching moment (about 66% body length) coefficients were calculated as presented below:

$$C_N = \sum_1^{i_{\text{MAX}}} (C_{p_{i_l}} - C_{p_{i_u}}) \frac{A_{p_i}}{S}$$

where: $C_{p_{i_u}}$ = Upper surface pressure coefficient
(assume afterbody $C_{p_{i_u}} = 0.0$)

$C_{p_{i_l}}$ = Lower surface pressure coefficient

A_{p_i} = Area of influence, ft^2 , (see tables IV and V for values)

S = Reference area, ft^2

and:

$$C_{m_{0.66l_B}} = \sum_1^{i_{\text{MAX}}} C_{N_i} \frac{l_i}{c}$$

DATA REDUCTION (Continued)

where:

l_1 = Distance of tap from moment reference point, in, see tables IV and V

\bar{c} = Reference length, in

and:

$$x_{CP} = \frac{C_m}{C_N} (\bar{c})$$

and:

$$C_N \text{ Total} = C_{N_{Wing}} + C_{N_{Body \text{ flap}}} + C_{N_{Afterbody}}$$

and:

$$C_m \text{ Total} = C_{m_{Wing}} + C_{m_{Body \text{ flap}}} + C_{m_{Afterbody}}$$

and:

$$C_m/C_N \text{ Total} = C_m/C_{N_{Wing}} + C_m/C_{N_{Body \text{ flap}}} + C_m/C_{N_{Afterbody}}$$

The following reference dimensions and constants were used in data reduction.

Basic constants:

Symbol	Definition	Model Scale
S	Reference area, ft ²	4.412
b	Reference span, in	37.935
\bar{c}	Reference length, in	19.230
S _E	Elevon reference area, ft ²	0.336
\bar{c}_E	Elevon reference length, in	3.44

DATA REDUCTION (Concluded)

A_N	Nacelle nozzle exit area, ft^2	0.01278
XMRP	Moment reference point on X axis, in	43.598
YMRP	Moment reference point on Y axis, in	0.0
ZMRP	Moment reference point on Z axis, in	-0.405

TABLE I.

[illegible]

TABLE II.

TEST: AA578 (NAAL713)		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: SEPT. 18-23, 1973	
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES						NO. OF RUNS	MACH NUMBERS		TEST RUN NUMBERS
		α	β	γ_1	γ_2	γ_3	δ_f	δ_e	δ_c		20		
001	B16 C5 FJ40 W87E18	10	0	VAR	0.99	-18	0			1	1		
002		10		VAR							2		
003		A		1.0							3		
004				1.3							4		
005				1.5							5		
006		B		1.0	.125						6		
007				1.3							7		
008				1.5							8		
009				1.5	0						9		
010				1.3							10		
011				1.0							11		
012				1.5	.286						12		
013				1.0							13		
014				1.3							14		
015				1.0	-18						15		
016				1.5							16		
017				1.3							17		
018				1.0							18		
1													
7													
13													
19													
25													
31													
37													
43													
49													
55													
61													
67													
75													
76													

α OR β
SCHEDULES

$$\alpha(A) = 10, 15, 20$$

$$\alpha(B) = -4.0, 5.10, 15.20$$

DEFICIENTS

*DEPENDENT VARIABLES ARE LISTED IN THE TABULATED SOURCE DATA (VOLUME 2).

TABLE II. - Continued.

TEST: 0A578 (NAAZ 713)		DATA SET/RUN NUMBER COLLATION SUMMARY															DATE: SEPT 18-23, 1973															
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES										NO. OF RUNS	MACH NUMBERS																	
		α	β	γ	δ	ϵ	ζ	η	θ	ι	κ	λ	μ		ν	ξ	\omicron	π	ρ	σ	τ	υ	ϕ	χ	ψ	ω						
RDN 019	B/C5F, J40 W87 E18	B	0	1.5	286	+20	0							1																		
020				1.3																												
021				1.0																												
022				1.5	125																											
023				1.3																												
024				1.0																												
025		A		1.5	0																											
026				1.3																												
027				1.0																												
028		B		1.5	125-18	+15																										
029				1.3																												
030				1.0																												
031		A		1.5	039																											
032				1.3																												
033				1.0																												
034		B		1.5	286																											
035				1.3																												
036				1.0																												

TABLE II. - Continued.

TEST: 0A 578 (N4K 713)										DATE: SEPT 18-23, 1973									
DATA SET / RUN NUMBER COLLATION SUMMARY																			
DATA SET IDENTIFIER	CONFIGURATION	SCMD.		PARAMETERS/VALUES						NO. OF RUNS	MACH NUMBERS								
		α	β	M/δ	h/b	δf	δe						20						
RUN 037	B ₁₆ C5F ₁ J40W87E18	B	0	1.5	286	-18	-15			1	37								
038				1.3							38								
039				1.0							39								
040		A		1.5	.039						40								
041				1.3							41								
042				1.0							42								
043		B		1.5	.125						43								
044				1.3							44								
045				1.0							45								
046	B ₁₆ C5F ₁ J41W87E18			1.3			+15				46								
047				1.0							47								
048				1.3	.039						48								
049				1.0	.039						49								
050				1.3	.283						50								
051				1.0							51								
052				1.3			0				52								
053				1.0							53								
054				1.3	.039						54								
TEST RUN NUMBERS																			

TABLE II. - Continued.

TEST: AA578 (NAAL 713)										DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: SEPT 18-23, 1973									
DATA SET IDENTIFIER		CONFIGURATION		SCHD.		PARAMETERS/VALUES						NO. OF RUNS		MACH NUMBERS															
				α β		γ δ ϵ ζ η θ ϕ ψ χ ω																							
RDV 055		B ₁₆ C ₅ F ₁ J ₄₁ W ₈₇ E ₁₈		B 0		1.3 .039-18 0								20															
056						1.0 .039								55															
057						1.3 .125								56															
058						1.0								57															
059		B ₁₆ C ₅ F ₁ J ₄₂ W ₈₇ E ₁₈				1.5								58															
060						1.3								59															
061						1.0								60															
062				A		1.5 .039								61															
063						1.3								62															
064						1.0								63															
065				B		1.5 .125								64															
066						1.3								65															
067						1.0								66															
068						1.5 .286								67															
069						1.3								68															
070						1.0								69															
071		B ₁₂ C ₅ J ₄₂ W ₈₇ E ₁₈				1.3								70															
072						1.0								71															
														72															
TEST RUN NUMBERS																													
1	7	13	19	25	31	37	43	49	55	61	67	73	79	85	91														
COEFFICIENTS																													
α OR β		$\alpha(G_1) = 10, 15, 20$																											
SCHEDULES		$\alpha(B) = -4, 0, 5, 10, 15, 20$																											

* DEPENDENT VARIABLES ARE LISTED IN THE TABULATED SOURCE DATA (VOLUME 2).

TABLE II. - Concluded.

[illegible]

*DEPENDENT VARIABLES ARE LISTED IN THE TABULATED SOURCE DATA (VOLUME 2).

TABLE III. - MODEL DIMENSIONAL DATA

MODEL COMPONENT: BODY -B12 Body

GENERAL DESCRIPTION: Fuselage, 2A configuration with base fairing,
lightweight orbiter per Rockwell lines VL70-000103

Scale Model = 0.0405

DRAWING NUMBER: SS-A00102
VL70-000103

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length - in.	<u>1705.0</u>	<u>69.05250</u>
Max. Width - in.	<u> </u>	<u> </u>
Max. Depth - in.	<u>248.0</u>	<u>10.0440</u>
Fineness Ratio	<u>6.875</u>	<u>6.875</u>
Area - Ft ²		
Max. Cross-Sectional	<u>355.278</u>	<u>0.58274</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. - Continued.

MODEL COMPONENT: BODY - B16

GENERAL DESCRIPTION: -89B Fuselage

Scale Model = 0.0405

DRAWING NUMBER: VL72-000089

DIMENSIONS:

FULL-SCALE

MODEL SCALE

Length - in.

1328.3

53.796

Max. Width - in.

Max. Depth - in.

248.0

10.044

Fineness Ratio - in.

5.35605

5.35605

Area - Ft²

Max. Cross-Sectional

355.278

0.583

Planform

Wetted

Base

TABLE III. - Continued.

MODEL COMPONENT: CANOPY - C5

GENERAL DESCRIPTION: -89B Canopy

Scale Model = 0.0405

DRAWING NUMBER VL70-000092

<u>DIMENSION:</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length (Sta Fwd Bulkhead)	<u>391.0</u>	<u> </u>
Max Width (T.E. Bulkhead)	<u>560.0</u>	<u> </u>
Max Depth (WPZ ₁ = 421.922 to Z ₁ = 500)	<u> </u>	<u> </u>
Fineness Ratio	<u> </u>	<u> </u>
Area		
Max Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>
Sta. Fwd. Bulkhead, Fus. Sta	<u>391.00</u>	<u>15.836</u>
Sta. T.E. , Fus. Sta.	<u>560.</u>	<u>22.680</u>

TABLE III. - Continued.

MODEL COMPONENT: Body Flap - F1

GENERAL DESCRIPTION: Body Flap Located on Lower Aft Portion of
Fuselage Trailing Edge

Scale Model = .0405

DRAWING NUMBER: VL70-000003A

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length in.	<u>236.54</u>	<u>9.580</u>
Flap L.E. Fus. Sta. in.	<u>1528.30</u>	<u>61.896</u>
Flap T.E. Fus. Sta. in.	<u>1650.56</u>	<u>66.848</u>
Span in.	<u>236.54</u>	<u>9.580</u>
Area ft ²		
Max. Cross-Sectional		
Planform	<u>199.75</u>	<u>0.328</u>
Wetted		
Base		

TABLE III. - Continued.

MODEL COMPONENT: ELEVON E-18

GENERAL DESCRIPTION: Unswept hingeline elevon used on Wing W67

Scale Model = 0.0405

DRAWING NUMBER: VL70-000093

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - FT ²	<u>205.52</u>	<u>0.337</u>
Span (equivalent) - IN.	<u>353.34</u>	<u>14.310</u>
Inb'd equivalent chord	<u>114.78</u>	<u>4.649</u>
Outb'd equivalent chord	<u>55.00</u>	<u>2.228</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>.208</u>	<u>.208</u>
At Outb'd equiv. chord	<u>.400</u>	<u>.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.00</u>	<u>0.00</u>
Tailing Edge	<u>-10.24</u>	<u>-10.24</u>
Hingeline	<u>0.00</u>	<u>0.00</u>
Area Moment (Normal to hinge line) - FT ³	<u>1548.07</u>	<u>2.539</u>
Product of Area Moment		

TABLE III. - Continued.

MODEL COMPONENT: AIR BREATHING PROPULSION SYSTEM - J₄₀GENERAL DESCRIPTION: One Twin-podded nacelle under each wing plus one
bottom centerline twin-podded nacelle.

Scale: 0.0405

DRAWING NUMBER: SS-A00028

DIMENSIONS:	FULL SCALE	MODEL SCALE
Length - In.	<u>231.580</u>	<u>9.379</u>
Max. Width - In.	<u>52.000</u>	<u>2.106</u>
Max. Depth - In.	<u>52.000</u>	<u>2.106</u>
Fineness Ratio		
Area		
Max Cross-Sectional - IN. ²	<u>2123.717</u>	<u>3.483</u>
Nozzle - In. ²	<u>1122.327</u>	<u>1.841</u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>
Forebody Nose	Wing	Q
Model Station - In.	<u>38.88</u>	<u>38.88</u>
Water Line - In.	<u>10.328</u>	<u>9.577</u>
Thrust Line	OUTB'D INB'D	Q
Butt Line-In	<u>11.117</u> <u>8.567</u>	<u>0.0</u>
Incidence - D.g.	<u>+4°</u>	<u>+ 4°</u>

TABLE III. - Continued.

MODEL COMPONENT: AIR BREATHING PROPULSION SYSTEM - J₄₁

GENERAL DESCRIPTION: One twin-podded nacelle above each wing plus one
bottom centerline twin podded nacelle. Engines 1, 2, 5, and 6 have been
extended 90 inches full-scale.

SCALE: 0.0405

DRAWING NUMBER: SS-A00028

DIMENSIONS:	FULL SCALE	MODEL SCALE
Length - In.	<u>321.58</u>	<u> </u>
Max. Width	<u>52.000</u>	<u>2.106</u>
Max. Depth	<u>52.000</u>	<u>2.106</u>
Fineness Ratio	<u> </u>	<u> </u>
Area		
Max. Cross-Sectional - In. ²	<u>2123.717</u>	<u>3.843</u>
Nozzle - In. ²	<u>1122.327</u>	<u>1.841</u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>
Forebody Nose	<u>Wing</u>	<u>C</u>
Model Station - In.	<u>38.88</u>	<u>38.88</u>
Water Line - In.	<u>15.15</u>	<u>9.577</u>
Thrust Line	<u>Out'd</u> <u>Inb'd</u>	<u>§</u>
Butt Line - In.	<u>11.117</u> <u>8.567</u>	<u>0.0</u>
Incidence - Deg.	<u>0°</u>	<u>+ 4°</u>

TABLE III. - Continued.

MODEL COMPONENT: AIR BREATHING PROPULSION SYSTEM - J₄₂GENERAL DESCRIPTION: One twin-podded nacelle above each wing plus one bottom centerline twin-podded nacelle.

SCALE: 0.0405

DRAWING NUMBER: SS-A00028

DIMENSIONS:	FULL SCALE	MODEL SCALE
Length	<u>231.580</u>	<u>9.379</u>
Max. Width	<u>52.000</u>	<u>2.106</u>
Max. Depth	<u>52.000</u>	<u>2.106</u>
Fineness Ratio	<u> </u>	<u> </u>
Area		
Max. Cross-Sectional - In. ²	<u>2123.717</u>	<u>3.843</u>
Nozzle - In. ²	<u>1122.327</u>	<u>1.841</u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>
Forebody Nose	WING	q
Model Station - In.	<u>38.88</u>	<u>38.88</u>
Water Line - In.	<u>15.15</u>	<u>9.577</u>
Thrust Line	<u>Outb'd</u> <u>Inb'd</u>	<u>q</u>
Butt Line - In.	<u>11.117</u> <u>8.567</u>	<u>0.0</u>
Incidence - Deg.	<u>0°</u> <u> </u>	<u>+ 4°</u>

TABLE III. - Concluded.

MODEL COMPONENT: WING, W87GENERAL DESCRIPTION: Double delta wing (75° /45° ALE)

SCALE MODEL: 0.0405

DRAWING NUMBER: VL70-000093

DIMENSIONS:

FULL-SCALEMODEL SCALETOTAL DATAArea - ft²

Planform

Wetted

Span - equivalent

Aspect Ratio

Rate of Taper

Taper Ratio

Dihedral Angle, deg. @ X/C=75.33%

Incidence Angle, degrees

Aerodynamic Twist, degrees

Toe-In Angle

Cant Angle

Sweep-Back Angles, degrees

Leading Edge

Trailing Edge

0.25 Element Line

Chords:

Root (Wing Sta. 0.0)

Tip (equivalent)

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

Airfoil Section

Root

Tip

EXPOSED DATAArea - ft²

Span (equivalent) - ft.

Aspect Ratio

Taper Ratio

Chords - in.

Root

Tip

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

Leading Edge Cuff

Planform Area - ft²

L.E. Intersects Fus. @ Sta.

L.E. Intersects Wing @ Sta.

TABLE IV. - WING PRESSURE CONSTANTS AND LOCATIONS

C_{p_i}	x/c	n	A_{p_i}/S	l_i/\bar{c}
i=1	15	0	.0732	.282
7	15	33.4	.0592	.019
13	15	52.0	.0355	-.131
19	15	66.3	.0355	-.246
25	15	87.6	.0236	-.418
2	30	0	.0489	-.065
8	30	33.4	.0395	-.122
14	30	52.0	.0236	-.247
20	30	66.3	.0223	-.332
26	30	87.6	.0157	-.460
3	45	0	.0489	-.152
9	45	33.4	.0395	-.263
15	45	52.0	.0236	-.363
21	45	66.3	.0223	-.419
27	45	87.6	.0157	-.502
4	60	0	.0489	-.369
10	60	33.4	.0395	-.404
16	60	52.0	.0236	-.479
22	60	66.3	.0223	-.505
28	60	87.6	.0157	-.544
5	75	0	.0489	-.586
11	75	33.4	.0395	-.545
17	75	52.0	.0236	-.595
23	75	66.3	.0223	-.592
29	75	87.6	.0157	-.586
6	90	0	.0489	-.803
12	90	33.4	.0395	-.686
18	90	52.0	.0236	-.711
24	90	66.3	.0223	-.679
30	90	87.6	.0157	-.628

Note: Values identical for upper and lower surface

TABLE V. - BODY FLAP AND AFTERBODY PRESSURE CONSTANTS

Body Flap Pressure Constants and Locations

Location	A_{p_1}/S	l_1/\bar{c}
1	.0170	-1.0399
2	.0160	-1.0399
3	.0170	-1.0399

Note: Values identical for upper and lower surface

Afterbody Pressure Constants and Locations*

Location	A_{p_1}/S	l_1/\bar{c}
1	.0479	-1.030
2	.0479	-1.191
3	.0479	-1.373

- Note: 1. Values identical for side and lower surfaces
 2. Assume that all C_p upper = 0.0 for afterbody only
 3. Side not utilized for integration

* Afterbody installed during runs 71 and 72 only

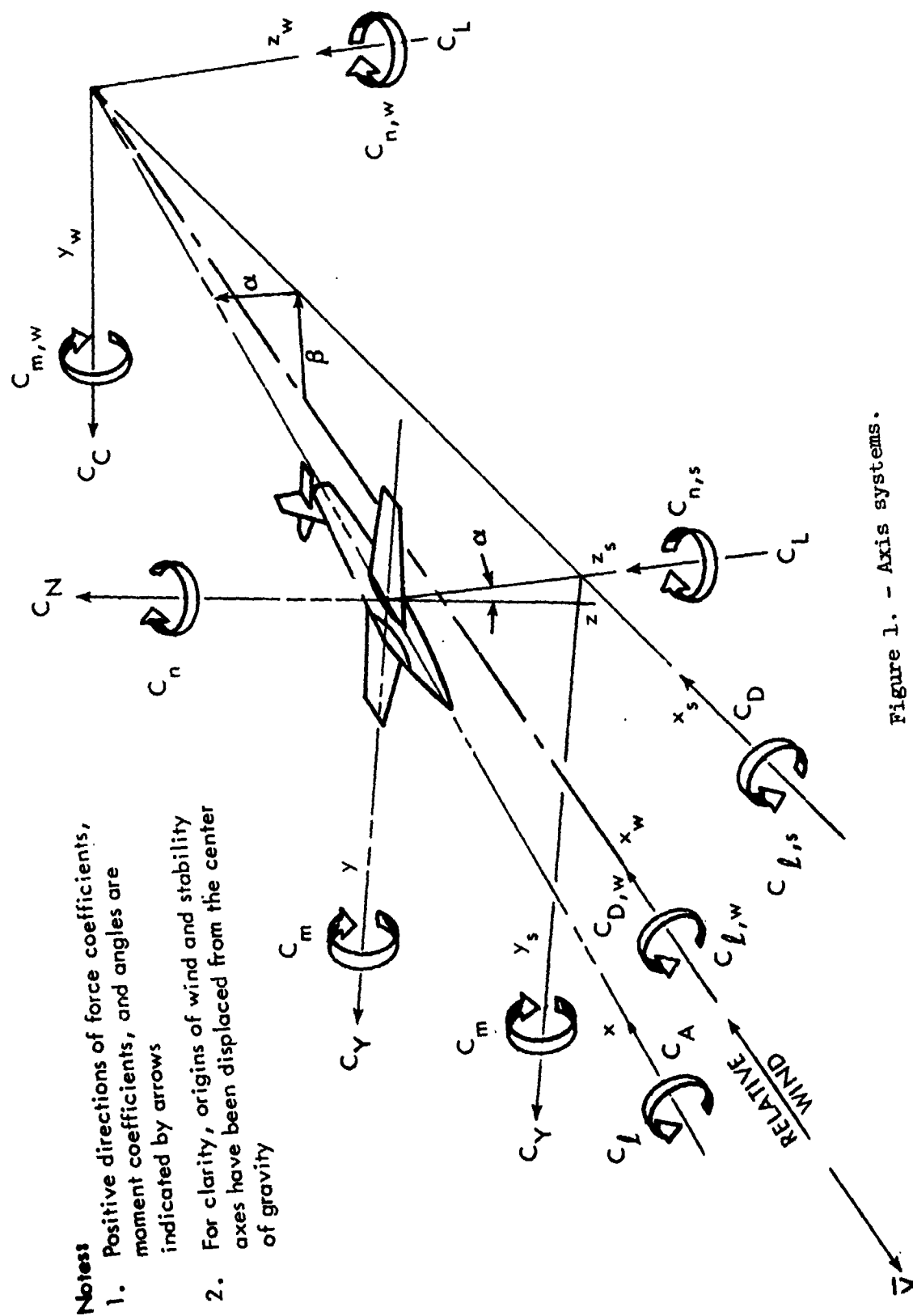
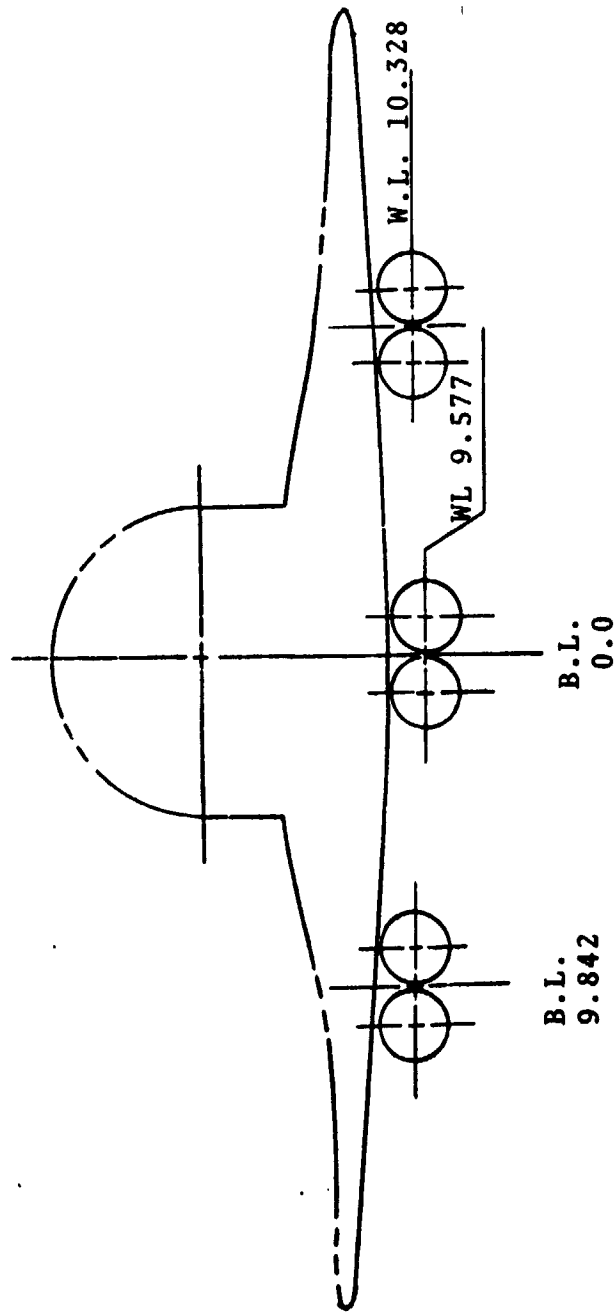


Figure 1. - Axis systems.

J40

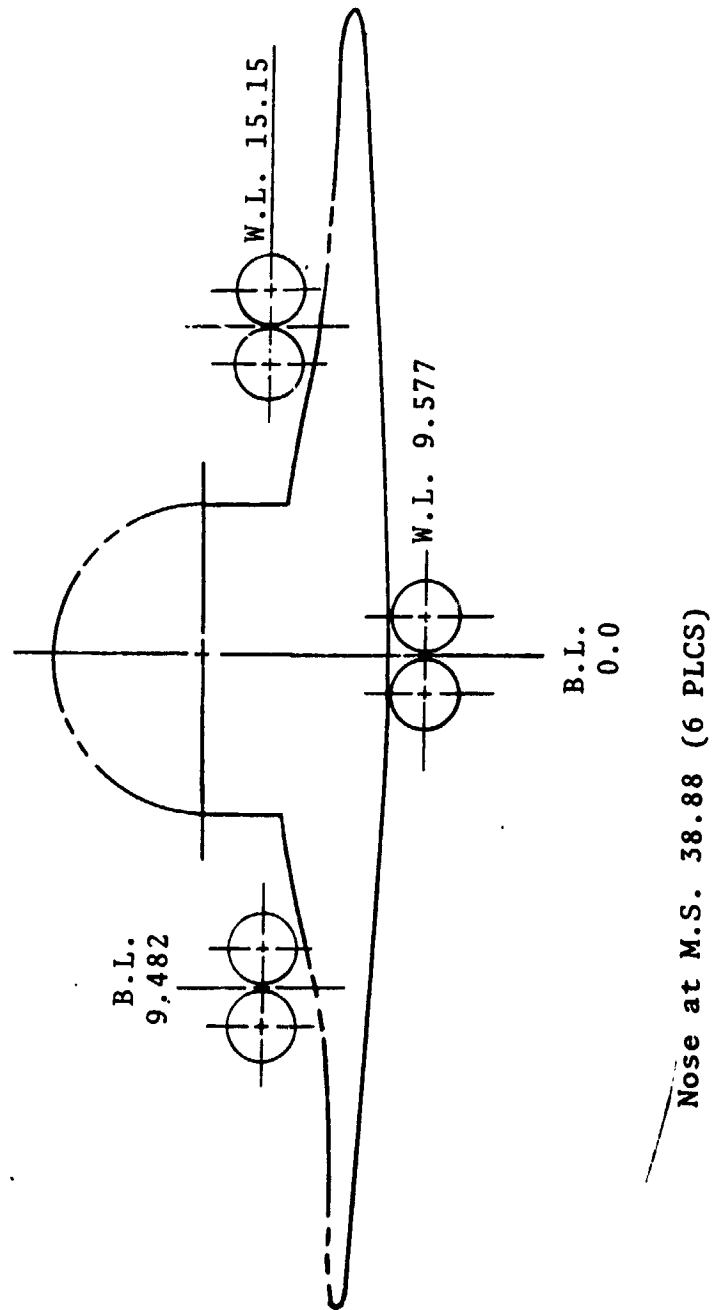
J41 - As Shown With 90-Inch (Full Scale) Insert In Engines 1, 2, 5, and 6.



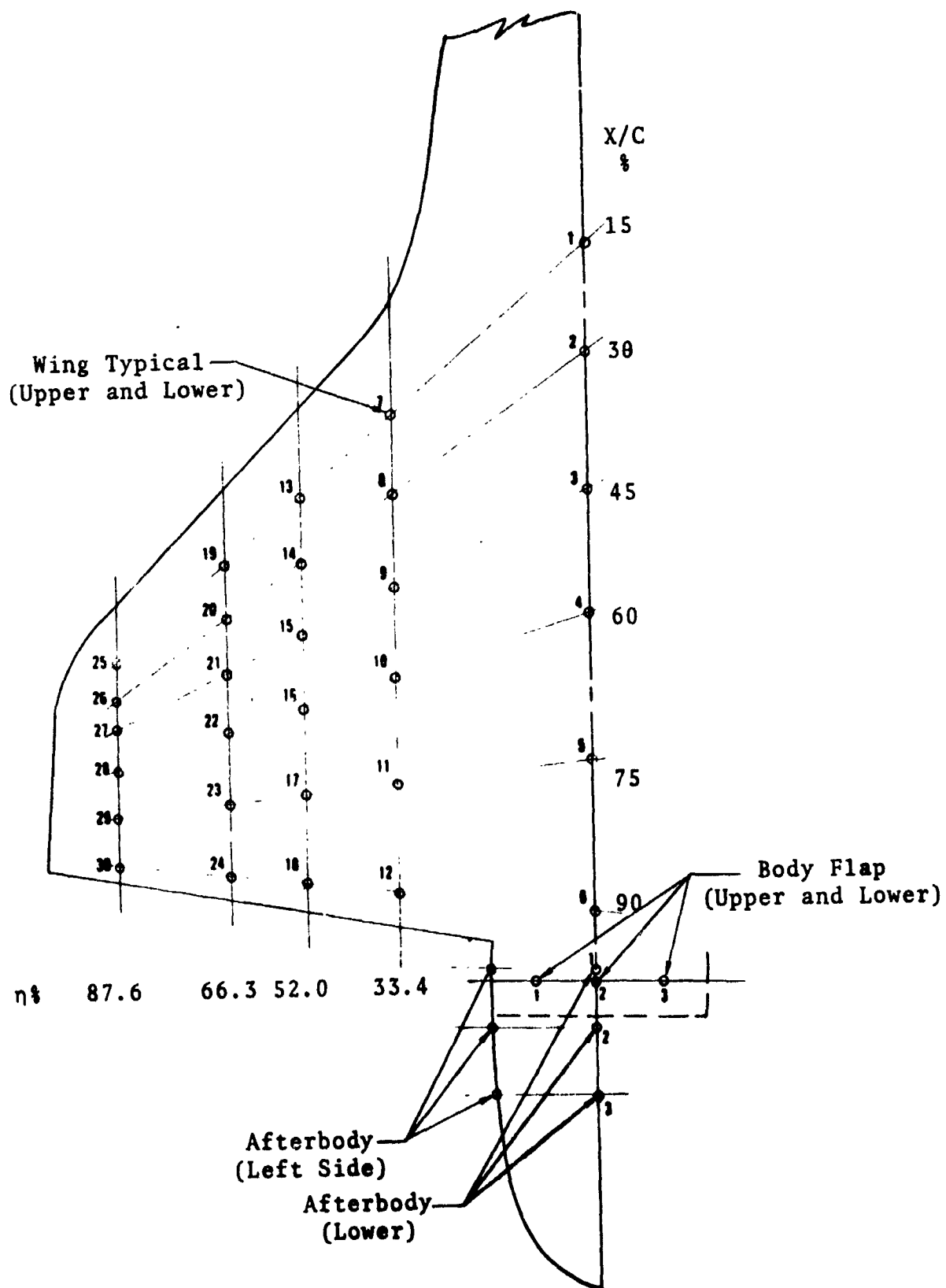
Nose at M.S. 38.88 (6 PLCS)

a. J40 and J41 nacelle configuration
Figure 2. - Model sketches.

J42



b. J42 nacelle configuration.
Figure 2. - Continued.



c. Pressure bug locations.

Figure 2. - Concluded.

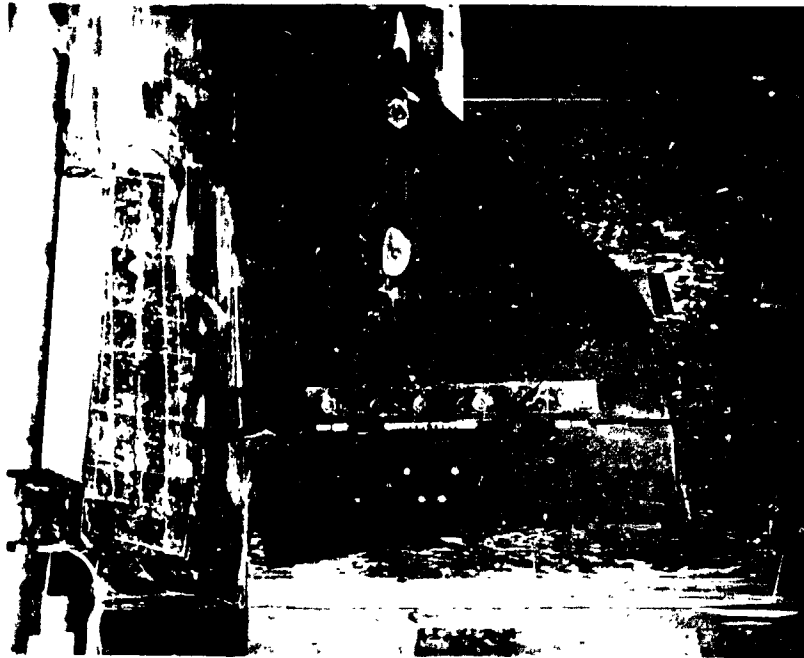


a. Model Installation.

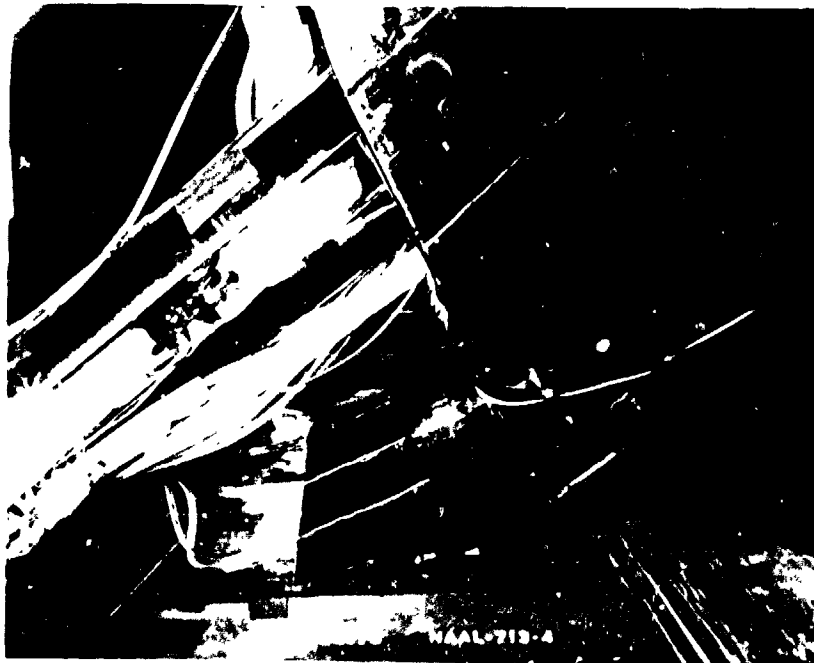


b. Pressure bug installation,
upper surface of left wing.

Figure 3. - Model Photographs.

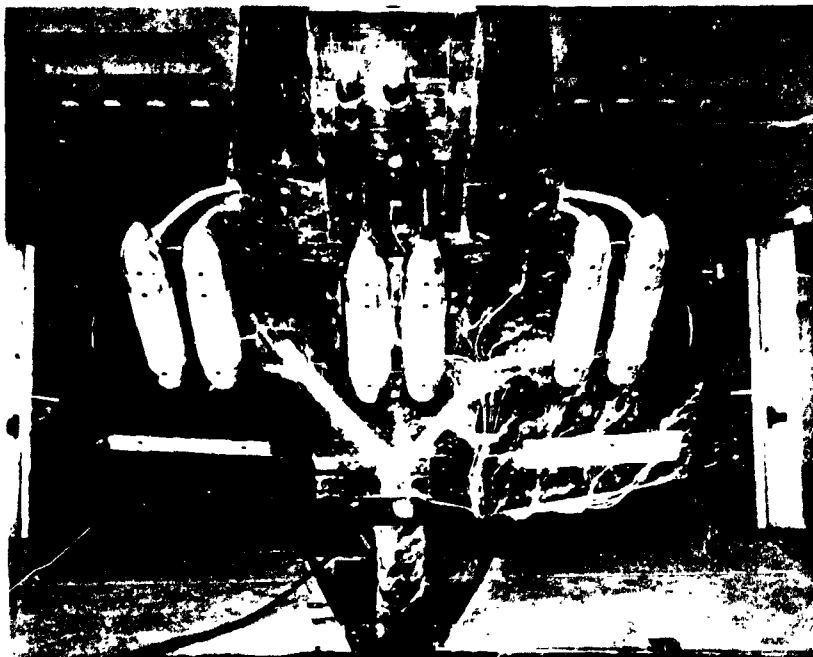


c. Right elevon showing strain gage instrumented beam.

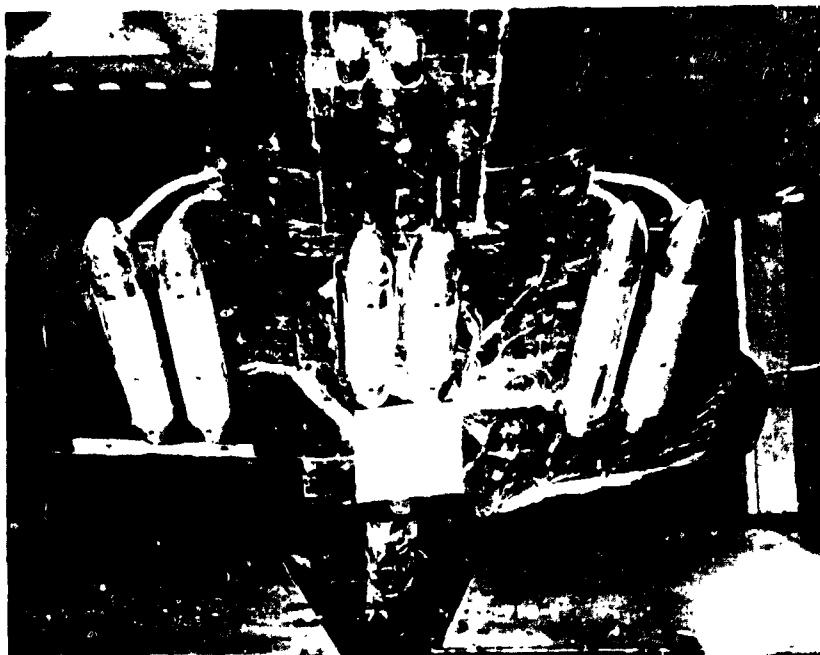


d. Pressure bug location, upper surface of body flap.

Figure 3. - Continued.

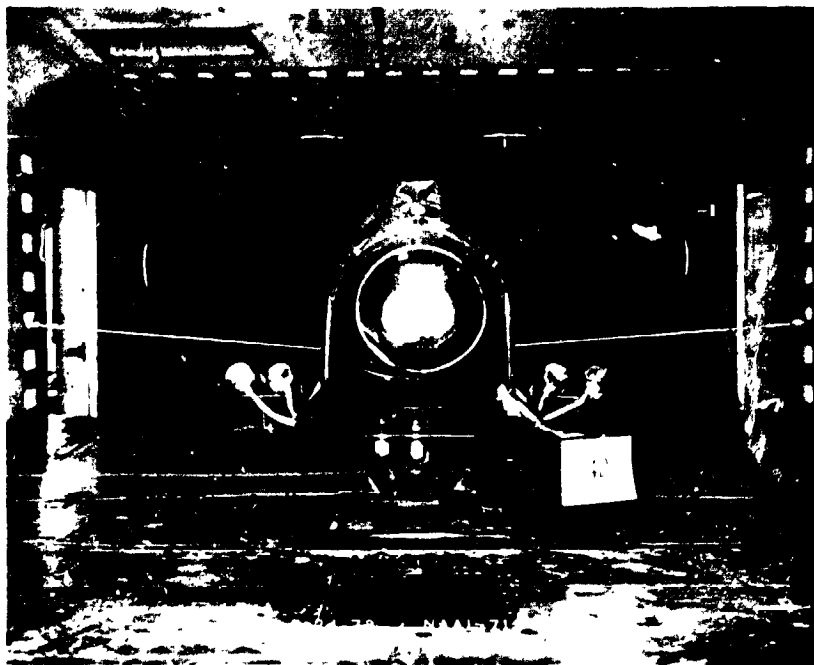


e. J₄₀ configuration of ABPS.



f. J₄₁ configuration of ABPS.

Figure 3. - Continued.

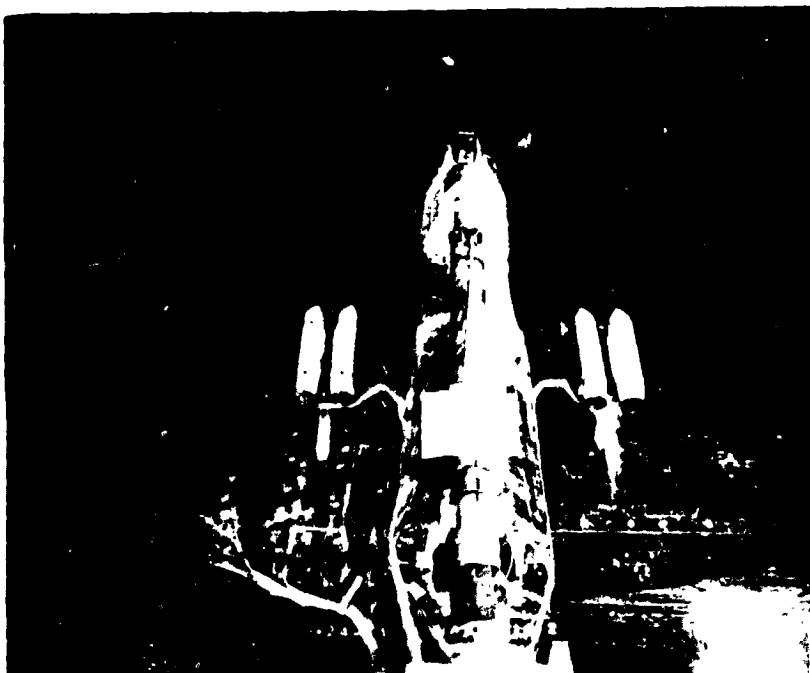


g. J₄₂ configuration of ABPS.



h. J₄₂ left wing.

Figure 3. - Continued.



i. J₄₂ top view.

Figure 3. - Concluded.

TABULATED SOURCE DATA

Tabulation of plotted data are available on
request from Data Management Services.

CAS78 (NVAL 713) 816 CS F1 J40 W87 E18

(NOVAL23) (01 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. 1400P = 43.5980 IN.
LREF = 19.2300 IN. 1400P = .0000 IN.
BREF = 37.9350 IN. 2400P = -.4050 IN.
SCALE = .0005

BETA = .000 FTM/F = 1.000
M/B = .039 EDFLAF = -18.000
ELEVON = .000

RUN NO. 3/ 0 R/VL = 1.20 GRADIENT INTERVAL = -4.00V 16.00

MACH	ALPHA	CARC	CAB1	O-ME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	9.900	.02575	.01911	-.01000	.01000	-.18600	-.21900	-.23000	-.23000	-.24700	-.19200
.165	15.000	.02501	.01914	-.04100	.01200	-.19400	-.19600	-.23000	-.24500	-.24900	-.20700
.165	20.000	.02799	.02478	-.18200	.02700	-.25900	-.25700	-.26000	-.32700	-.33800	-.34900
GRADIENT	.02205	.02205	.02201	-.01382	.02216	-.02157	.02451	.02157	-.02634	-.02283	-.02834

REFERENCE DATA

SREF = 4.4120 SQ.FT. 1400P = 43.5980 IN.
LREF = 19.2300 IN. 1400P = .0000 IN.
BREF = 37.9350 IN. 2400P = -.4050 IN.
SCALE = .0005

BETA = .000 FTM/F = 1.300
M/B = .039 EDFLAF = -18.000
ELEVON = .000

RUN NO. 4/ 0 R/VL = 1.20 GRADIENT INTERVAL = -4.00V 16.00

MACH	ALPHA	CARC	CAB1	O-ME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	9.900	.02581	.01918	-.01500	.02300	-.18800	-.20100	-.23000	-.23600	-.25200	-.21000
.165	15.000	.02582	.01936	-.09700	.01400	-.19100	-.20100	-.22800	-.29700	-.24900	-.23900
.165	19.900	.02853	.02482	-.19900	.03000	-.27600	-.25300	-.26300	-.33200	-.31600	-.30300
GRADIENT	.02232	.02232	.02234	-.01608	.02235	-.02259	.02230	.02279	-.02412	.02079	.02280

REFERENCE DATA

SREF = 4.4120 SQ.FT. 1400P = 43.5980 IN.
LREF = 19.2300 IN. 1400P = .0000 IN.
BREF = 37.9350 IN. 2400P = -.4050 IN.
SCALE = .0005

BETA = .000 FTM/F = 1.500
M/B = .039 EDFLAF = -18.000
ELEVON = .000

RUN NO. 5/ 0 R/VL = 1.20 GRADIENT INTERVAL = -4.00V 16.00

MACH	ALPHA	CARC	CAB1	O-ME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	9.900	.02525	.01849	-.01600	.02300	-.17700	-.19700	-.22500	-.22200	-.24200	-.21200
.165	14.900	.02567	.01865	-.10300	.01500	-.18300	-.18900	-.22400	-.24000	-.24200	-.23400
.165	19.900	.02840	.02553	-.21100	.03200	-.27100	-.25800	-.26300	-.34600	-.32100	-.31000
GRADIENT	.02238	.02238	.02233	-.01740	.02260	-.02280	.02160	.02180	-.02250	.02000	.02140

CA578 (NVAL 713) B16 C5 F1 J40 W87 E18

(REVAD6) (08 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4080 IN.
 SCALE = .0405

BETA = .000 FTM/F = 1.000
 H/B = .125 EDOFLAF = -18.000
 ELEVON = .000

PARAMETRIC DATA

RUN NO. 6/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	CABC	CAB1	CAME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-3.900	.00645	.01843	.07100	-.01000	-.17600	-.20700	-.21600	-.22700	-.24000	-.19400
.165	.000	.00630	.01724	.06800	-.00800	-.17100	-.20300	-.21300	-.20700	-.22500	-.16700
.165	4.900	.00492	.01606	.04100	-.00600	-.15900	-.19100	-.19900	-.19400	-.20800	-.15300
.165	10.000	.00610	.01659	.00200	.00000	-.16500	-.18300	-.20200	-.20400	-.22300	-.16900
.165	14.900	.00616	.01688	-.04800	.00700	-.16700	-.17500	-.20000	-.21600	-.21900	-.16900
.165	19.900	.00802	.02444	-.13000	.01900	-.25900	-.25700	-.27600	-.31000	-.30200	-.29500
GRADIENT	-.00002	-.00008	-.00008	-.00623	.00089	.00048	.00177	.00089	.00046	.00094	.00036

CA578 (NVAL 713) B16 C5 F1 J40 W87 E18

(REVAD7) (08 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4080 IN.
 SCALE = .0405

BETA = .000 FTM/F = 1.000
 H/B = .125 EDOFLAF = -18.000
 ELEVON = .000

PARAMETRIC DATA

RUN NO. 7/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	CABC	CAB1	CAME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-3.900	.00661	.01832	.03700	-.01400	-.18100	-.21100	-.21800	-.21800	-.23200	-.19900
.165	.000	.00629	.01755	.08200	-.01200	-.17100	-.20200	-.21200	-.21500	-.22100	-.18400
.165	4.900	.00498	.01573	.05300	-.00800	-.16100	-.18100	-.19200	-.18600	-.20300	-.16300
.165	9.900	.00447	.01624	.01400	-.00200	-.14400	-.18200	-.19300	-.19400	-.21100	-.17600
.165	14.900	.00612	.01639	-.02800	.00400	-.16500	-.17300	-.19400	-.21600	-.20400	-.17600
.165	19.900	.00712	.02252	-.11900	.01800	-.23000	-.22600	-.24600	-.29000	-.28300	-.28200
GRADIENT	-.00004	-.00011	-.00011	-.00673	.00097	.00121	.00200	.00139	.00048	.00136	.00109



DATE 01 OCT 74

TABULATED SOURCE DATA - CA578

PAGE 3

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

(RDVALD9) (01 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTV/P = 1.500
 HVB = .125 GDFLAF = -18.000
 ELEVON = .000

RUN NO. 8/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	CABC	CAB1	CME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-4.000	.00583	.01900	.11400	-.01700	-.18800	-.21900	-.22600	-.23300	-.24800	-.19500
.165	.000	.00532	.01773	.09700	-.01400	-.17200	-.20100	-.21700	-.21900	-.23500	-.17800
.165	4.900	.00460	.01505	.06600	-.01000	-.14800	-.17500	-.19100	-.17600	-.22600	-.13700
.165	9.900	.00380	.01373	.02700	-.00400	-.12300	-.15000	-.16200	-.17400	-.17800	-.14300
.165	14.900	.00516	.01674	-.02000	.00300	-.16700	-.19200	-.20300	-.21000	-.21700	-.16400
.165	19.900	.00774	.02348	-.11600	.01700	-.25000	-.25100	-.25900	-.29800	-.28800	-.24700
GRADIENT		-.00006	-.00017	-.00712	.00105	.00185	.00214	.00208	.00171	.00245	.00189

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTV/P = 1.500
 HVB = .125 GDFLAF = .000
 ELEVON = .000

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

(RDVALD9) (01 NOV 73)

RUN NO. 9/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	CABC	CAB1	CME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-3.900	.00582	.01821	.11000	-.01600	-.18800	-.23900	-.23900	-.21800	-.23000	-.14600
.165	.000	.00511	.01597	.09500	-.01400	-.16500	-.21400	-.23700	-.19400	-.20600	-.11900
.165	4.900	.00820	.01590	.06300	-.00900	-.26500	-.15900	-.22600	-.20100	-.17800	-.19100
.165	9.900	.00490	.01571	.02300	-.00300	-.15800	-.19300	-.19800	-.18300	-.21200	-.13800
.165	14.900	.00559	.01791	-.02600	.00400	-.18000	-.20600	-.22300	-.21600	-.25400	-.15600
.165	19.900	.00814	.02445	-.12000	.01800	-.26300	-.27600	-.30000	-.31100	-.31900	-.23800
GRADIENT		-.00002	-.00001	-.00729	.00108	.00154	.00177	.00078	.00125	-.00126	-.00083

CA57B (NAAL 713) B16 C5 F1 J40 W87 E18

(RDVAL10) (OR NEW 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
LREF = 19.2300 IN. YMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTV/F = 1.000
H/B = .125 EDFLAP = .000
ELEVON = .000

RUN NO. 10/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	CABC	CAB1	CH/E	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-4.000	.00592	.01782	.09300	-.01400	-.19100	-.23500	-.23900	-.21300	-.22700	-.13500
.165	.000	.00525	.01591	.08000	-.01200	-.16900	-.20600	-.21200	-.18900	-.20000	-.13300
.165	4.900	.00496	.01530	.05000	-.00700	-.16000	-.20600	-.20500	-.18000	-.18800	-.12100
.165	9.900	.00568	.01741	.01000	-.00100	-.18300	-.21600	-.22000	-.20000	-.23300	-.15500
.165	14.900	.00665	.02083	-.04000	.00600	-.21500	-.24100	-.26700	-.24000	-.24300	-.19500
.165	19.900	.00860	.02521	-.13100	.02000	-.27800	-.28300	-.30400	-.32300	-.33000	-.24500
GRADIENT		.00004	.00017	-.00709	.00108	-.00139	-.00065	-.00145	-.00146	-.00317	-.00311

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
LREF = 19.2300 IN. YMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTV/F = 1.000
H/B = .125 EDFLAP = .000
ELEVON = .000

RUN NO. 11/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	CABC	CAB1	CH/E	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-4.000	.00575	.01850	.06800	-.01000	.18600	-.23100	-.23700	-.21700	-.23800	-.16600
.165	.000	.00528	.01665	.05600	-.00800	-.17100	-.21400	-.21800	-.19600	-.20800	-.14400
.165	4.900	.00476	.01522	.03900	-.00600	-.15400	-.20200	-.19900	-.17600	-.19200	-.12600
.165	9.900	.00538	.01766	.00000	.00000	-.17400	-.21400	-.22100	-.20400	-.23600	-.16500
.165	14.900	.00642	.01940	-.05200	.00800	-.20700	-.23000	-.24300	-.23100	-.25900	-.17900
.165	19.900	.00846	.02502	-.14400	.02200	-.27300	-.27800	-.31100	-.31300	-.32400	-.24700
GRADIENT		.00003	.00007	-.00626	.00093	-.00102	-.00002	-.00039	-.00004	-.00158	-.00107



DATE 01 OCT 74 TABULATED SOURCE DATA - CA57E

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18 (RDVA12) (08 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
LREF = 19.2300 IN. YMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.500
H/B = .286 EDFLAP = .000
ELEVON = .000

RUN NO. 12/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	CABC	CAB1	C+ME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-4.000	.00506	.01543	.09000	-.01300	-.16300	-.19600	-.20200	-.18900	-.20200	-.11900
.165	.000	.00463	.01432	.08000	-.01200	-.15000	-.18800	-.19100	-.16600	-.18300	-.11500
.165	4.900	.00408	.01294	.06100	-.00900	-.13200	-.17300	-.13300	-.14600	-.17200	-.10900
.165	9.900	.00473	.01551	.02700	-.00400	-.15300	-.19500	-.20300	-.17800	-.20600	-.13000
.165	15.000	.00549	.01762	-.00900	.00100	-.17700	-.21000	-.22300	-.21600	-.23500	-.15300
.165	19.900	.00775	.02337	-.08900	.01300	-.25100	-.27900	-.30900	-.29400	-.29400	-.20100
	GRADIENT	.00002	.00012	-.00528	.00076	-.00072	-.00078	-.00120	-.00149	-.00196	-.00180

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
LREF = 19.2300 IN. YMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.000
H/B = .286 EDFLAP = .000
ELEVON = .000

RUN NO. 13/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	CABC	CAB1	C+ME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-4.000	.00499	.01631	.05500	-.00800	-.16100	-.21200	-.21400	-.19600	-.20200	-.11700
.165	.000	.00493	.01539	.04700	-.00700	-.15900	-.19900	-.20100	-.18500	-.19400	-.12700
.165	4.900	.00480	.01495	.03700	-.00600	-.15500	-.19700	-.19800	-.17500	-.19000	-.11900
.165	9.900	.00525	.01654	.00500	.00000	-.17000	-.21000	-.21600	-.19300	-.21300	-.14200
.165	14.900	.00628	.01904	-.03200	.00600	-.20300	-.22800	-.24500	-.23000	-.24900	-.16900
.165	20.000	.00816	.02407	-.10900	.01600	-.26400	-.28900	-.30700	-.30500	-.30200	-.21500
	GRADIENT	.00006	.00014	-.00457	.00070	-.00204	-.00095	-.00163	-.00166	-.00244	-.00172

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

(ROVA14) (08 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

BETA = .000 FTN/P = 1.300
 H/B = .286 EDFLAP = .000
 ELEVON = .000

PARAMETRIC DATA

RUN NO. 14/ 0 RVL = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	CABC	CAB1	CME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-4.000	.00530	.01559	.07500	-.01100	-.17100	-.20900	-.20400	-.18900	-.19400	-.11700
.165	.000	.00463	.01448	.06600	-.01070	-.14900	-.18700	-.19300	-.17200	-.18600	-.11400
.165	4.900	.00485	.01464	.04900	-.00700	-.15700	-.19700	-.19900	-.16900	-.18600	-.11100
.165	9.900	.00485	.01572	.01600	-.00200	-.15700	-.19900	-.20400	-.18200	-.20000	-.13600
.165	14.900	.00575	.01844	-.02100	.00300	-.18600	-.21800	-.24200	-.22300	-.24400	-.15800
.165	20.000	.00805	.02447	-.09700	.01400	-.26000	-.29700	-.31100	-.31100	-.31100	-.21200
	GRADIENT	.00003	.00015	-.00511	.00076	-.00086	-.00069	-.00180	-.00171	-.00246	-.00223

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

BETA = .000 FTN/P = 1.000
 H/B = .286 EDFLAP = -.18.000
 ELEVON = .000

PARAMETRIC DATA

RUN NO. 15/ 0 RVL = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	CABC	CAB1	CME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-3.900	.00506	.01605	.06900	-.00900	-.16300	-.21200	-.21100	-.18800	-.20600	-.12700
.165	.000	.00503	.01595	.04900	-.00700	-.16200	-.20400	-.20900	-.19000	-.20500	-.13000
.165	4.900	.00462	.01497	.03900	-.00600	-.14900	-.19900	-.19800	-.17200	-.19000	-.12200
.165	10.000	.00509	.01672	.00700	-.00100	-.16400	-.19600	-.21800	-.20200	-.22300	-.14500
.165	14.900	.00634	.01955	-.03000	.00400	-.20600	-.22700	-.25000	-.24700	-.25800	-.16900
.165	19.900	.00805	.02443	-.10400	.01500	-.26000	-.29100	-.31600	-.31600	-.31400	-.20200
	GRADIENT	.00006	.00017	-.00466	.00064	-.00186	-.00050	-.00188	-.00280	-.00263	-.00212

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

(ROVA15) (08 NOV 73)

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

(ROVA16) (08 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
LREF = 19.2300 IN. YMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

BETA = .000 FTM/P = 1.500
H/B = .286 BDFLAP = -18.000
ELEVON = .000

PARAMETRIC DATA

RUN NO. 16/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	CABC	CAB1	OME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-3.900	.00496	.01697	.10100	-.01900	-.16000	-.18800	-.20200	-.20700	-.22400	-.17800
.165	.000	.00480	.01542	.09000	-.01300	-.15500	-.17400	-.18500	-.18600	-.19500	-.16700
.165	4.900	.00451	.01514	.07100	-.01000	-.14600	-.16800	-.17900	-.19000	-.19300	-.16600
.165	9.900	.00436	.01529	.03800	-.00500	-.14100	-.16600	-.18600	-.18900	-.19300	-.16500
.165	15.000	.00494	.01644	.00200	.00000	-.16000	-.17300	-.18700	-.21400	-.21000	-.18300
.165	19.900	.00675	.02157	-.07500	.01100	-.21800	-.21700	-.25000	-.28100	-.27100	-.25200
	GRADIENT	-.00001	-.00002	-.00528	.00080	.00086	.00076	.00056	-.00044	.00055	-.00021

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

(ROVA17) (08 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
LREF = 19.2300 IN. YMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

BETA = .000 FTM/P = 1.500
H/B = .286 BDFLAP = -18.000
ELEVON = .000

PARAMETRIC DATA

RUN NO. 17/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	CABC	CAB1	OME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-3.900	.00523	.01705	.08500	-.01200	-.16900	-.18600	-.20200	-.20600	-.22000	-.18900
.165	.000	.00477	.01575	.07600	-.01100	-.15400	-.17600	-.18300	-.19300	-.20300	-.17200
.165	4.900	.00436	.01465	.05800	-.00800	-.14100	-.16100	-.17400	-.17600	-.18800	-.16200
.165	9.900	.00450	.01501	.02500	-.00300	-.14500	-.15600	-.17100	-.18100	-.19700	-.17900
.165	14.900	.00512	.01708	-.00900	.00100	-.16500	-.17800	-.19900	-.22700	-.21700	-.18500
.165	20.000	.0073	.02259	-.08100	.01200	-.22700	-.24100	-.26600	-.29400	-.27300	-.25600
	GRADIENT	-.00001	-.00001	-.00507	.00072	.00030	.00072	.00031	-.00071	.00019	-.00006

DATE 01 OCT 74

TABULATED SOURCE DATA - CA578

PAGE 8

CA578 (NAAL 713) 816 C5 F1 J40 W87 E18

(REV A18) (08 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

BETA = .000 FIN/P = 1.000
 HVB = .286 BDFLAP = -18.000
 ELEVON = .000

PARAMETRIC DATA

RUN NO. 18/ 0 RM/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	CABC	CAB1	CME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-3.900	.00516	.01753	.06100	-.00800	-.16700	-.19400	-.20100	-.21200	-.23000	-.19500
.165	.000	.00532	.01680	.05300	-.00800	-.17200	-.18900	-.19400	-.20900	-.22100	-.18200
.165	4.900	.00451	.01580	.04300	-.00600	-.14600	-.17800	-.19400	-.18700	-.20000	-.17000
.165	9.900	.00482	.01651	.01100	-.00100	-.15600	-.18900	-.19700	-.20400	-.20800	-.19000
.165	14.900	.00534	.01724	-.02300	.00300	-.17300	-.18800	-.20200	-.22100	-.22100	-.19200
.165	19.900	.00738	.02270	-.09400	.01400	-.23900	-.24100	-.28900	-.30300	-.27900	-.25400
GRADIENT		-.00000	-.00002	-.00446	.00066	.00006	.00031	-.00013	-.00044	.00001	.00065

CA578 (NAAL 713) 816 C5 F1 J40 W87 E18

(REV A19) (08 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

BETA = .000 FIN/P = 1.500
 HVB = .286 BDFLAP = 20.000
 ELEVON = .000

PARAMETRIC DATA

RUN NO. 19/ 0 RM/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	CABC	CAB1	CME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-3.900	.00891	.02507	.08100	-.01200	-.28800	-.32300	-.32100	-.23800	-.34300	-.25200
.165	.000	.00930	.02593	.07000	-.01000	-.30100	-.33300	-.32500	-.25800	-.35600	-.25500
.165	4.900	.00866	.02349	.05100	-.00700	-.28000	-.29300	-.30900	-.24200	-.32800	-.21200
.165	9.900	.00806	.02667	.01600	-.00200	-.29300	-.31600	-.34500	-.28900	-.37400	-.24600
.165	14.900	.00940	.02783	-.02700	.00400	-.30400	-.31000	-.34200	-.33100	-.36600	-.25100
.165	19.900	.01165	.03319	-.11100	.01700	-.37700	-.39600	-.40300	-.40400	-.44900	-.30400
GRADIENT		.00002	.00013	-.00573	.00085	-.00051	.00080	-.00133	-.00461	-.00136	-.00153



DATE 01 OCT 74

TABULATED SOURCE DATA - CA578

PAGE 9

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

(RDVA20) (01 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
LREF = 19.2300 IN. YMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

BETA =
H/B =
ELEVON =

FTN/P = 1.000
EDFLAP = 20.000
ELEVON = .000

PARAMETRIC DATA

RUN NO. 20/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	CABC	CAB1	CME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-3.900	.02838	.02334	.06900	-.01000	-.27100	-.30000	-.29800	-.22600	-.33400	-.21600
.165	.000	.02868	.02418	.06000	-.00900	-.28100	-.30900	-.30800	-.23400	-.33500	-.23700
.165	4.900	.02871	.02441	.04000	-.00600	-.28100	-.28900	-.30000	-.25900	-.34400	-.24700
.165	9.900	.02809	.02588	.03600	-.00100	-.29400	-.31900	-.34200	-.27900	-.35000	-.23400
.165	14.900	.02876	.02821	-.03600	.00500	-.31500	-.32300	-.33700	-.32600	-.34500	-.29100
.165	19.900	.01104	.03177	-.11800	.01800	-.35700	-.38300	-.39700	-.34600	-.41500	-.29100
GRADIENT	.00007	.00024	.00024	-.00560	.00081	-.00214	-.00120	-.00237	-.00620	-.00250	-.00309

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
LREF = 19.2300 IN. YMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

BETA =
H/B =
ELEVON =

FTN/P = 1.000
EDFLAP = 20.000
ELEVON = .000

PARAMETRIC DATA

RUN NO. 21/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	CABC	CAB1	CME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-3.900	.00750	.02115	.05300	-.00800	-.24200	-.27400	-.26600	-.22300	-.28900	-.19600
.165	.000	.00716	.02074	.04400	-.00600	-.23100	-.26800	-.26300	-.22400	-.27100	-.19700
.165	5.000	.00787	.02128	.03200	-.00400	-.25400	-.27500	-.27800	-.23400	-.27300	-.19400
.165	10.000	.00852	.02387	.00000	.00000	-.27500	-.29700	-.30500	-.25800	-.32400	-.22100
.165	15.000	.00869	.02572	-.04400	.00600	-.28100	-.29700	-.32600	-.28700	-.35900	-.24600
.165	20.000	.01054	.02958	-.12400	.01800	-.34100	-.35900	-.38500	-.36300	-.38000	-.25500
GRADIENT	.00008	.00028	.00026	-.00502	.00072	-.00259	-.00160	-.00343	-.00346	-.00415	-.00230

(RDVAZ2) (DR NOV 73)

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4080 IN.
 SCALE = .0405

BETA =
 HVB =
 ELEVON =

PARAMETRIC DATA

RUN NO. 23/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	CABC	CAB1	CONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-3.900	.00835	.02569	-.01400	-.30200	-.32000	-.33000	-.27000	-.35300	-.24000
.165	.000	.00888	.02929	-.01200	-.31900	-.36200	-.36800	-.31500	-.40800	-.27400
.165	5.000	.00064	.03059	-.00700	-.34400	-.37400	-.36800	-.34900	-.41600	-.29500
.165	9.900	.01033	.02973	.00000	-.32400	-.33400	-.38100	-.33000	-.40800	-.29900
.165	14.900	.01049	.03083	.00800	-.33900	-.34600	-.33800	-.39700	-.37400	-.36200
.165	20.000	.01171	.03389	-.11500	-.37900	-.38900	-.39300	-.44000	-.43700	-.33800
GRADIENT		.00022	.00022	.00123	-.00163	-.00040	-.00055	-.00662	-.00074	-.00565

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4080 IN.
 SCALE = .0405

BETA =
 HVB =
 ELEVON =

PARAMETRIC DATA

RUN NO. 23/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	CABC	CAB1	CONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-3.900	.00839	.02455	-.01200	-.29000	-.30600	-.31400	-.26800	-.32500	-.23300
.165	.000	.00882	.02672	-.01000	-.31700	-.34400	-.33800	-.28100	-.35800	-.25300
.165	4.900	.01012	.02826	-.00600	-.32700	-.33600	-.35100	-.31100	-.38500	-.28100
.165	9.900	.01061	.02987	.00100	-.34300	-.36000	-.38300	-.32500	-.39700	-.29500
.165	15.000	.01037	.03122	.01100	-.35500	-.35100	-.34200	-.39300	-.40100	-.35100
.165	19.900	.01174	.03379	.02500	-.38000	-.39000	-.39400	-.43100	-.43200	-.33800
GRADIENT		.00007	.00034	.00121	-.00238	-.00216	-.00204	-.00621	-.00334	-.00545



DATE 01 OCT 74 TABULATED SOURCE DATA - CA578

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

(RDVA24) (OR NEW 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. YMRP = 43.5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4060 IN.
 SCALE = .0405

BETA = .000 FTM/F = 1.000
 H/B = .125 EDFLAP = 20.000
 ELEVON = .000

PARAMETRIC DATA

RUN NO. 24/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	CABC	CAB1	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	3.900	.00758	.02171	-.00800	-.24500	-.27800	-.27000	-.22600	-.29300	-.21200
.165	.000	.00836	.02315	-.00700	-.27000	-.28600	-.29500	-.24800	-.31300	-.22100
.165	4.900	.00895	.02435	-.00300	-.28600	-.31200	-.30800	-.28500	-.31900	-.23000
.165	10.000	.00825	.02569	-.01800	-.29900	-.31900	-.30900	-.27900	-.32900	-.25800
.165	14.900	.00836	.02760	.01200	-.30300	-.30600	-.31900	-.31800	-.33400	-.30000
.165	19.900	.01029	.03067	.02000	-.33300	-.37700	-.38700	-.37600	-.39600	-.27100
	GRADIENT	.00009	.00030	.00104	-.00301	-.00180	-.00273	-.00451	-.00417	-.00452

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

(RDVA25) (OR NEW 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. YMRP = 43.5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4060 IN.
 SCALE = .0405

BETA = .000 FTM/F = 1.000
 H/B = .125 EDFLAP = .000
 ELEVON = .000

PARAMETRIC DATA

RUN NO. 25/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	CABC	CAB1	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	9.900	.00865	.02642	-.04300	-.28000	-.28400	-.31800	-.28600	-.37700	-.28100
.165	14.900	.00820	.02878	-.15100	-.29800	-.32100	-.31700	-.33900	-.35600	-.31300
.165	19.900	.01105	.03161	-.25700	-.35700	-.37400	-.40400	-.39700	-.41700	-.27000
	GRADIENT	.00011	.00047	.00360	-.00360	-.00740	.00420	-.01860	.00420	-.00440

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

(GOVA26) (UR NEW 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
LREF = 19.2300 IN. YMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

BETA = .000 FTN/P = 1.300
HVB = .125 EDFLAP = .000
ELEVON = .000

RUN NO. 26/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAON	ALPHA	CABC	CAB1	C-ME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	9.900	.00777	.02303	-.03200	.00400	-.25100	-.26400	-.24500	-.26200	-.31000	-.23500
.165	14.900	.00845	.02517	-.13000	.01900	-.27300	-.27100	-.29000	-.34100	-.32500	-.25500
.165	20.000	.01026	.02993	-.23400	.03500	-.33200	-.32100	-.36000	-.40900	-.38300	-.29000
GRADIENT	.00014	.00043	.00043	-.01960	.00300	-.00440	-.00140	-.00100	-.01580	-.00330	-.00400

PARAMETRIC DATA

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

(GOVA27) (UR NEW 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
LREF = 19.2300 IN. YMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

BETA = .000 FTN/P = 1.000
HVB = .125 EDFLAP = .000
ELEVON = .000

RUN NO. 27/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAON	ALPHA	CABC	CAB1	C-ME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	9.900	.00662	.02007	-.01300	.00100	-.21400	-.23500	-.24300	-.23900	-.25900	-.27600
.165	14.900	.00696	.02111	-.10200	.01500	-.22500	-.23400	-.25500	-.26800	-.27700	-.28900
.165	19.900	.00909	.02701	-.19800	.03000	-.29400	-.28900	-.30700	-.36200	-.34000	-.31400
GRADIENT	.00007	.00021	.00021	-.01780	.00280	-.00220	.00020	-.00240	-.00580	-.00360	-.00060

PARAMETRIC DATA

CAS78 (NVAL 713) B16 C5 F1 J40 W87 E18

REFERENCE DATA

SREF = 4.4120 52.FT. WREF = 43.5980 IN.
 UREF = 19.2300 IN. YREF = .0000 IN.
 BREF = 37.9350 IN. ZREF = -.4050 IN.
 SCALE = .0405

RUN NO. 28/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	CABC	CAB1	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-4.000	.00753	.02298	.01900	-.24300	-.25100	-.25000	-.30100	-.28200	-.28900
.165	.000	.00650	.02024	.01700	-.21000	-.21800	-.20400	-.28100	-.24900	-.24000
.165	4.900	.00533	.01756	.02100	-.17200	-.18500	-.18800	-.24100	-.21000	-.20900
.165	9.900	.00497	.01571	.02700	-.16000	-.16900	-.17300	-.20700	-.19200	-.19200
.165	14.900	.00561	.01699	.03600	-.18100	-.17900	-.18500	-.21400	-.20800	-.21900
.165	19.900	.00665	.02597	.04800	-.23000	-.23200	-.24900	-.30500	-.31100	-.34300
GRADIENT		-.00034	-.00759	.00116	.00357	.00398	.00329	.00335	.00427	.00320

PAGAMETRIC DATA

BETA = .000
 W/B = .125
 ELEVON = 15.000

CAS78 (NVAL 713) B16 C5 F1 J40 W87 E18

REFERENCE DATA

SREF = 4.4120 52.FT. WREF = 43.5980 IN.
 UREF = 19.2300 IN. YREF = .0000 IN.
 BREF = 37.9350 IN. ZREF = -.4050 IN.
 SCALE = .0405

RUN NO. 28/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	CABC	CAB1	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-4.000	.00758	.02318	.01100	-.24500	-.25600	-.24600	-.30900	-.27500	-.27900
.165	.000	.00651	.02046	.01400	-.21000	-.21700	-.20900	-.27900	-.24900	-.25000
.165	4.900	.00605	.01725	.01900	-.16300	-.17700	-.17500	-.24100	-.21100	-.21100
.165	9.900	.00502	.01652	.02900	-.16200	-.16200	-.18100	-.23100	-.21000	-.21700
.165	14.900	.00617	.01867	.03900	-.19900	-.19000	-.20400	-.25400	-.23000	-.22100
.165	19.900	.00817	.02698	.04800	-.29700	-.30000	-.30100	-.32200	-.32300	-.34300
GRADIENT		-.00009	-.00026	.00116	.00283	.00383	.00225	.00320	.00461	.00364

PAGAMETRIC DATA

BETA = .000
 W/B = .125
 ELEVON = 15.000

CAS78 (NVAL 713) B16 C5 F1 J40 W87 E18

(NOVA33) (01 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. WREF = 43.5980 IN.
UREF = 19.2300 IN. YREF = .0330 IN.
BREF = 37.9350 IN. ZREF = -.4050 IN.
SCALE = .0405

BETA = .000 FTV/P = 1.000
M/E = .125 UDFLAF = -18.000
ELEVN = 15.000

PARAMETRIC DATA

RUN NO. 30/ 0 RW/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAON	ALPHA	CABC	CAB1	C+ME	ONE	OPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-3.900	.00662	.02126	-.06700	.01000	-.21400	-.22900	-.24700	-.24900	-.25800	-.23200
.165	.000	.00609	.01995	-.08700	.01300	-.19700	-.21800	-.23400	-.23900	-.24600	-.21400
.165	4.900	.00497	.01808	-.11900	.01800	-.16100	-.17800	-.19900	-.24500	-.22400	-.21900
.165	9.900	.00445	.01634	-.16200	.02400	-.15700	-.15900	-.17200	-.23600	-.21600	-.19000
.165	14.900	.00633	.01905	-.20900	.03100	-.20400	-.21100	-.19900	-.25500	-.23400	-.22300
.165	19.900	.00590	.02871	-.26900	.04400	-.32000	-.32200	-.31900	-.34900	-.34600	-.36100
GRADIENT	-.00004	-.00016	-.00016	-.00742	.00112	.00118	.00193	.00329	.00172	.00103	.00083

REFERENCE DATA

SREF = 4.4120 SQ.FT. WREF = 43.5980 IN.
UREF = 19.2300 IN. YREF = .0330 IN.
BREF = 37.9350 IN. ZREF = -.4050 IN.
SCALE = .0405

BETA = .000 FTV/P = 1.500
M/E = .039 UDFLAF = -18.000
ELEVN = 15.000

PARAMETRIC DATA

RUN NO. 31/ 0 RW/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAON	ALPHA	CABC	CAB1	C+ME	ONE	OPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	10.000	.00837	.01768	-.35300	.06300	-.17400	-.17900	-.19500	-.24900	-.21700	-.21400
.165	15.000	.00615	.01958	-.40100	.06100	-.19900	-.19500	-.22400	-.26400	-.24500	-.21700
.165	19.900	.00854	.02646	-.46500	.07000	-.27600	-.28400	-.27900	-.33900	-.33600	-.34400
GRADIENT	.00016	.00034	.00034	-.00860	.00160	-.00800	-.00320	-.00660	-.00600	-.00660	-.00620

DATE 01 OCT 74

TABULATED SOURCE DATA - CAS78

PAGE 15

CAS78 (NAAL 713) 816 C5 F1 J40 W87 E18

(GDA32) (04 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XREF = 43.5940 IN.
UREF = 19.2300 IN. YREF = .0000 IN.
BREF = 37.9350 IN. ZREF = -4.0000 IN.
SCALE = .0405

BETA = .0000 FTN/F = 1.300
HVB = .0039 UDFLAF = -18.000
ELEVON = 15.000

RUN NO. 32/ 0 RANL = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MMOM	ALPHA	CABC	CAB1	CONE	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	9.900	.00534	.01694	-.26400	.04000	-.17300	-.17300	-.18500	-.23900	-.20000	-.19400
.165	14.900	.00594	.01929	-.31500	.04700	-.19200	-.18700	-.20400	-.26900	-.24000	-.23200
.165	19.900	.00932	.02460	-.39600	.06000	-.30100	-.28400	-.30400	-.38600	-.35600	-.34200
GRADIENT		.00012	.00047	-.01020	.00140	-.00340	-.00290	-.00460	-.00400	-.00740	-.00690

PARAMETRIC DATA

REFERENCE DATA

SREF = 4.4120 SQ.FT. XREF = 43.5940 IN.
UREF = 19.2300 IN. YREF = .0000 IN.
BREF = 37.9350 IN. ZREF = -4.0000 IN.
SCALE = .0405

BETA = .0000 FTN/F = 1.000
HVB = .0039 UDFLAF = -18.000
ELEVON = 15.000

RUN NO. 33/ 0 RANL = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MMOM	ALPHA	CABC	CAB1	CONE	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	10.000	.00530	.01813	-.18200	.02700	-.17400	-.18000	-.20600	-.24400	-.22300	-.21600
.165	14.900	.00571	.01925	-.24600	.03700	-.18400	-.18000	-.21100	-.28100	-.24600	-.23500
.165	20.000	.00998	.02764	-.34900	.05900	-.29000	-.25900	-.27500	-.32500	-.32400	-.34500
GRADIENT		.00017	.00023	-.01906	.00204	-.00204	.00000	-.00122	-.00347	-.00489	-.00594

PARAMETRIC DATA

(REV A34) (08 NOV 73)

CA57B (NAAL 713) B16 C5 F1 J40 W87 E18

REFERENCE DATA

PARAMETRIC DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.1050 IN.
 SCALE = .0405

BETA = .000 FITV/F = 1.500
 HVB = .286 EDFLAF = -18.000
 ELEVON = 15.000

RUN NO. 34/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	CABC	CAB1	CME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-3.900	.00675	.01958	-.09500	.01400	-.21800	-.21600	-.20600	-.24100	-.23500	-.23500
.165	.000	.00576	.01835	-.12100	.01000	-.18600	-.19100	-.19300	-.24400	-.22900	-.22900
.165	4.900	.00472	.01648	-.14100	.02100	-.15200	-.16300	-.19100	-.22700	-.20400	-.19100
.165	9.900	.00497	.01624	-.17100	.02600	-.16000	-.16600	-.17400	-.22500	-.20000	-.19100
.165	14.900	.00598	.01786	-.20700	.03100	-.19300	-.18800	-.19100	-.22700	-.22500	-.22500
.165	19.900	.00803	.02628	-.27800	.04200	-.29200	-.30100	-.29600	-.31500	-.31600	-.31900
GRADIENT		-.00005	-.00011	-.00577	.00088	.00149	.00162	.00293	.00150	.00145	.00110

CA57B (NAAL 713) B16 C5 F1 J40 W87 E18

(REV A35) (08 NOV 73)

REFERENCE DATA

PARAMETRIC DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.1050 IN.
 SCALE = .0405

BETA = .000 FITV/F = 1.500
 HVB = .286 EDFLAF = -18.000
 ELEVON = 15.000

RUN NO. 35/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	CABC	CAB1	CME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-3.900	.00630	.01905	-.07700	.01100	-.20300	-.20200	-.20100	-.26000	-.23800	-.22000
.165	.000	.00569	.01813	-.10700	.01500	-.18400	-.18400	-.19700	-.24200	-.22900	-.21600
.165	4.900	.00500	.01687	-.12100	.01800	-.16100	-.16900	-.19700	-.22400	-.20600	-.19500
.165	9.900	.00581	.01821	-.15100	.02300	-.18800	-.19200	-.20900	-.24600	-.21800	-.20800
.165	14.900	.00592	.01859	-.19000	.02800	-.19100	-.19700	-.19700	-.25200	-.23200	-.21600
.165	19.900	.00922	.02724	-.26300	.04000	-.29800	-.30800	-.30400	-.33600	-.32500	-.33200
GRADIENT		-.00001	-.00001	-.00582	.00088	.00035	-.00002	-.00007	.00019	.00041	.00030

DATE 01 OCT 74

TABULATED SOURCE DATA - CA578

PAGE 17

CA578 (NAAL 713) 816 C5 F1 J40 W87 E18

(RDVA36) (08 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

BETA = .000 FTV/F = 1.000
 H/B = .286 EDFLAF = -18.000
 ELEVON = 15.000

PARAMETRIC DATA

RUN NO. 36/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	CABC	CAB1	CME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-3.900	.00628	.01939	-.06700	.01000	-.20300	-.20400	-.23000	-.25100	-.23600	-.22100
.165	.000	.00662	.01884	-.08600	.01300	-.18100	-.19100	-.23100	-.23900	-.23500	-.21300
.165	5.000	.00605	.01758	-.11200	.01700	-.16300	-.17900	-.20600	-.23200	-.21900	-.20000
.165	9.900	.00660	.01783	-.14700	.02200	-.18100	-.18600	-.20100	-.24300	-.21600	-.20400
.165	15.000	.00609	.01882	-.17900	.02700	-.19700	-.20000	-.19500	-.26400	-.22900	-.21900
.165	19.900	.00977	.02852	-.25500	.03800	-.31600	-.32900	-.31700	-.34700	-.34300	-.35000
	GRADIENT	-.00001	-.00004	-.00599	.00090	.00017	.00022	.00210	-.00068	.00068	.00024

CA578 (NAAL 713) 816 C5 F1 J40 W87 E18

(RDVA37) (08 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

BETA = .000 FTV/F = 1.500
 H/B = .286 EDFLAF = -18.000
 ELEVON = -15.000

PARAMETRIC DATA

RUN NO. 37/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	CABC	CAB1	CME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-3.900	.00686	.01236	.23200	-.03500	-.12400	-.13300	-.12900	-.15800	-.15600	-.15000
.165	.000	.01339	.01067	.21900	-.03300	-.10800	-.12400	-.11900	-.11900	-.13900	-.13100
.165	4.900	.00333	.01050	.17900	-.02700	-.10700	-.12500	-.11900	-.11600	-.12500	-.13200
.165	9.900	.00351	.01077	.16500	-.02500	-.11300	-.11900	-.10400	-.13900	-.13400	-.13800
.165	14.900	.00391	.01307	.15600	-.02300	-.12600	-.13500	-.16000	-.16900	-.16400	-.14100
.165	19.900	.00602	.01908	.10100	-.01500	-.13400	-.20000	-.23000	-.25900	-.23600	-.20600
	GRADIENT	.00001	.00004	-.00432	.00067	-.00022	-.00001	-.00105	-.00101	-.00044	.00018

CA578 (NAAL 713) 816 C5 F1 J40 W87 E18

(ROVA38) (US NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.000
 H/B = .286 EDFLAP = -18.000
 ELEVON = -15.000

RUN NO. 38/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	CABC	CAB1	OME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-3.900	.00405	.01308	.23200	-.03500	-.13100	-.13900	-.13600	-.16600	-.16600	-.16200
.165	.000	.00363	.01111	.20600	-.03100	-.11700	-.11500	-.11500	-.15100	-.14200	-.13100
.165	5.000	.00350	.01130	.16400	-.02500	-.11300	-.11400	-.12400	-.15700	-.14900	-.12900
.165	10.000	.00381	.01214	.15100	-.02300	-.12300	-.12300	-.13700	-.16400	-.15000	-.14300
.165	14.900	.00471	.01464	.14000	-.02100	-.15200	-.16400	-.17800	-.17300	-.16900	-.16000
.165	19.900	.00612	.01919	.08300	-.01200	-.19800	-.19800	-.22200	-.25000	-.24500	-.21400
	GRADIENT	.00003	.00009	-.00497	.00075	-.00106	-.00124	-.00231	-.00116	-.00053	-.00025

CA578 (NAAL 713) 816 C5 F1 J40 W87 E18

(ROVA39) (US NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.000
 H/B = .286 EDFLAP = -18.000
 ELEVON = -15.000

RUN NO. 39/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	CABC	CAB1	OME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-3.900	.00450	.01452	.21000	-.03200	-.14500	-.15700	-.16700	-.17500	-.18600	-.16900
.165	.000	.00388	.01257	.19200	-.02900	-.12500	-.13300	-.15400	-.15900	-.15400	-.13900
.165	4.900	.00357	.01200	.16200	-.02400	-.11500	-.12800	-.14700	-.14700	-.15000	-.13400
.165	10.000	.00350	.01277	.14700	-.02200	-.11300	-.13200	-.15300	-.16300	-.16200	-.14100
.165	14.900	.00465	.01501	.13200	-.02000	-.15000	-.16600	-.17700	-.18900	-.18700	-.16400
.165	19.900	.00645	.02060	.06300	-.01900	-.20800	-.22300	-.24900	-.26400	-.25600	-.22100
	GRADIENT	.00000	.00003	-.00421	.00065	-.00003	-.00044	-.00045	-.00074	-.00031	.00008



DATE 01 OCT 74

TABULATED SOURCE DATA - CA578

PAGE 19

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

(RDVA440) (UR NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTM/P = 1.500
 H/B = .039 EDFLAF = -18.000
 ELEVON = -15.000

RUN NO. 40/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	CABC	CAB1	C-ME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	9.900	.00746	.02260	.21800	-.03300	-.24100	-.24500	-.27000	-.27800	-.28900	-.24900
.165	14.900	.00732	.02215	.16000	-.02400	-.23600	-.25000	-.28000	-.26900	-.28700	-.21800
.165	19.900	.00811	.02574	.07500	-.01100	-.26200	-.29200	-.32300	-.31700	-.32900	-.26400
	GRADIENT	-.00003	-.00003	-.01160	.00180	.00100	-.00100	-.00200	.00180	.00040	.00620

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

(RDVA441) (UR NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTM/P = 1.300
 H/B = .039 EDFLAF = -18.000
 ELEVON = -15.000

RUN NO. 41/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	CABC	CAB1	C-ME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	9.900	.00692	.02172	.19700	-.03000	-.22400	-.24000	-.25900	-.26500	-.28600	-.22900
.165	14.900	.00706	.02166	.15500	-.02300	-.22900	-.24800	-.27200	-.26900	-.29000	-.20700
.165	19.900	.00840	.02607	.06600	-.01000	-.27200	-.30300	-.32900	-.32900	-.32700	-.24700
	GRADIENT	.00003	-.00001	-.00840	.00140	-.00100	-.00160	-.00260	-.00080	.00120	.00440

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

(RDVA442) (UR NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTM/P = 1.000
 H/B = .039 EDFLAF = -18.000
 ELEVON = -15.000

RUN NO. 42/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	CABC	CAB1	C-ME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	9.900	.00620	.02027	.17400	-.02600	-.20000	-.23100	-.25300	-.24700	-.27400	-.20700
.165	14.900	.00728	.02228	.11800	-.01800	-.23500	-.26100	-.26700	-.26900	-.28400	-.23000
.165	19.900	.00832	.02493	.04100	-.00600	-.25900	-.28600	-.30600	-.30600	-.31800	-.25100
	GRADIENT	.00022	.00034	-.01120	.00160	-.00700	-.00600	-.00280	-.00440	-.00200	-.00460

DATE 01 OCT 74

TABULATED SOURCE DATA - CA578

PAGE 20

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

(RDVA43) (L8 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.500
 H/B = .125 BOFLAP = -18.000
 ELEVON = -15.000

RUN NO. 43/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	CABC	CAB1	C+ME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-3.900	.00714	.02093	.32000	-.04800	-.23100	-.25000	-.24500	-.24600	-.26100	-.23000
.165	.000	.02576	.01712	.26800	-.04000	-.18600	-.20400	-.19000	-.20600	-.20900	-.19900
.165	4.900	.00483	.01427	.21200	-.03200	-.15600	-.15300	-.15300	-.18600	-.17900	-.16900
.165	9.900	.00438	.01503	.19000	-.02800	-.14200	-.15900	-.17500	-.19200	-.19300	-.17100
.165	14.900	.00531	.01679	.16900	-.02500	-.17100	-.19700	-.18800	-.21000	-.21400	-.18900
.165	20.000	.00565	.02186	.09900	-.01500	-.21500	-.2.400	-.26500	-.28400	-.27700	-.22700
GRADIENT		-.00010	-.00021	-.00792	.00121	.00334	.00359	.00256	.00170	.00217	.00223

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

(RDVA44) (L8 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.500
 H/B = .125 BOFLAP = -18.000
 ELEVON = -15.000

RUN NO. 44/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	CABC	CAB1	C+ME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-4.000	.00669	.01938	.27100	-.04100	-.21600	-.21900	-.22000	-.23500	-.24300	-.22500
.165	.000	.00555	.01637	.23800	-.03600	-.17900	-.17900	-.18400	-.20600	-.20100	-.19300
.165	4.900	.00467	.01518	.18500	-.02800	-.15100	-.16500	-.18600	-.18600	-.18900	-.16800
.165	9.900	.00490	.01656	.16900	-.02500	-.15800	-.17600	-.19700	-.20400	-.21100	-.18700
.165	14.900	.00540	.01745	.14700	-.02200	-.17400	-.19100	-.20500	-.22300	-.22000	-.18900
.165	19.900	.00752	.02307	.07800	-.01100	-.24300	-.25600	-.27000	-.28900	-.29900	-.24500
GRADIENT		-.00006	-.00007	-.00661	.00102	.00211	.00114	.00027	.00046	.00065	.00155



TABULATED SOURCE DATA - CA57B

CA57B (NAAL 713) 816 C5 F1 J41 W87 E18 (GDVA45) (DR NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
LREF = 19.2300 IN. YMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0406

PARAMETRIC DATA

BETA = .000 FTM/P = 1.000
HVB = .125 UDFLAF = -18.000
ELEVON = -15.000

RUN NO. 45/0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/16.00

MAOH	ALPHA	CABC	CAB1	OHE	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-4.000	.00668	.02041	.22300	-.03400	-.21600	-.23200	-.24300	-.24500	-.24800	-.23300
.165	.000	.02591	.01681	.20300	-.03100	-.19100	-.18100	-.19100	-.20300	-.20300	-.20500
.165	4.900	.00472	.01517	.16900	-.02500	-.15200	-.16500	-.18900	-.18800	-.18500	-.16800
.165	9.900	.00508	.01670	.15500	-.02300	-.16400	-.18700	-.20700	-.20200	-.20400	-.18200
.165	14.900	.00589	.01855	.12700	-.01900	-.19000	-.20700	-.23700	-.22600	-.24100	-.21000
.165	19.900	.02823	.02306	.08400	-.00800	-.91300	-.23800	-.25400	-.27400	-.28200	-.30100
GRADIENT		-.00005	-.00007	-.00602	.00079	.00157	.00079	.00156	.00082	.00014	.00135

CA57B (NAAL 713) 816 C5 F1 J41 W87 E18

(GDVA46) (DR NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
LREF = 19.2300 IN. YMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0406

PARAMETRIC DATA

BETA = .000 FTM/P = 1.000
HVB = .125 UDFLAF = -18.000
ELEVON = 15.000

RUN NO. 46/0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/16.00

MAOH	ALPHA	CABC	CAB1	OHE	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-4.000	.00712	.02122	-.07500	.01100	-.22700	-.22800	-.23500	-.27400	-.28400	-.24900
.165	.000	.02566	.01900	-.10100	.01500	-.18300	-.19900	-.22700	-.24100	-.23600	-.21600
.165	4.900	.00501	.01607	-.14000	.02100	-.16200	-.16900	-.18200	-.20700	-.19300	-.19600
.165	9.900	.00458	.01567	-.18700	.02800	-.14800	-.15800	-.18300	-.20600	-.18800	-.18700
.165	14.900	.00601	.01843	-.24300	.03700	-.19400	-.19800	-.19900	-.23800	-.22600	-.22300
.165	19.900	.02804	.02602	-.32100	.04800	-.29200	-.29100	-.29700	-.31700	-.31700	-.31800
GRADIENT		-.00006	-.00018	-.00888	.00137	.00200	.00199	.00239	.00215	.00251	.00161

DATE 01 OCT 74

TABULATED SOURCE DATA - CA578

PAGE 22

CA578 (NAAL 713) B16 C5 F1 J41 W87 E18

(RDVAA47) (08 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

BETA = .000 PTN/P = 1.000
 H/B = .125 EDFLAF = -18.000
 ELEVON = 15.000

RUN NO. 47/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	CABC	CAB1	OME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-4.000	.00675	.02096	-.06900	.01000	-.21800	-.22100	-.25000	-.26500	-.25800	-.24000
.165	.000	.02250	.01882	-.09000	.01300	-.18100	-.21000	-.23000	-.23300	-.22600	-.20900
.165	4.900	.00494	.01714	-.12700	.01900	-.16000	-.17900	-.19900	-.22000	-.21200	-.19900
.165	9.900	.00498	.01699	-.17300	.02600	-.16100	-.18300	-.19400	-.21300	-.20700	-.19900
.165	14.900	.00626	.02000	-.22100	.03300	-.20200	-.21200	-.21500	-.26300	-.24600	-.24100
.165	19.900	.01921	.02745	-.29800	.04500	-.29800	-.31000	-.30400	-.32800	-.34100	-.35500
GRADIENT		-.00003	-.00007	-.00815	.00124	.00098	.00089	.00216	.00040	.00041	.00009

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

BETA = .000 PTN/P = 1.000
 H/B = .039 EDFLAF = -18.000
 ELEVON = 15.000

RUN NO. 48/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	CABC	CAB1	OME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	.000	.00490	.01654	-.26400	.04000	-.15800	-.15700	-.18800	-.22300	-.21000	-.19500
.165	4.900	.00602	.01945	-.32600	.04900	-.19400	-.20600	-.23700	-.25500	-.25200	-.19700
.165	9.900	.00936	.02825	-.40700	.05200	-.30200	-.28100	-.31100	-.37400	-.35700	-.34100
GRADIENT		.00045	.00118	-.01445	.00222	-.01457	-.01253	-.01243	-.01528	-.01487	-.01480



(RDVA49) (04 NOV 73)

CA578 (NAAL 713) B16 C5 F1 J41 W87 E18

REFERENCE DATA
 SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTM/P = 1.000
 M/B = .039 EDFLAF = -18.000
 ELEVON = 15.000

RUN NO. 49/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	CABC	CAB1	OME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	.000	.00519	.01748	-.18000	.02700	-.16800	-.17200	-.19900	-.23600	-.21700	-.20500
.165	4.900	.00603	.01969	-.24600	.03700	-.19500	-.20100	-.23300	-.25600	-.24600	-.22500
.165	9.900	.00832	.02637	-.33500	.05100	-.26900	-.25900	-.27800	-.34400	-.33500	-.33400
	GRADIENT	.00032	.00080	-.01566	.00243	-.01022	-.00880	-.00798	-.01093	-.01194	-.01326

(RDVA50) (04 NOV 73)

CA578 (NAAL 713) B16 C5 F1 J41 W87 E18

PARAMETRIC DATA

BETA = .000 FTM/P = 1.300
 M/B = .236 EDFLAF = -18.000
 ELEVON = 15.000

RUN NO. 50/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	CABC	CAB1	OME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-4.000	.00654	.02126	-.07800	.01100	-.21100	-.22000	-.24700	-.28100	-.26100	-.24400
.165	.000	.00536	.01768	-.10900	.01500	-.17300	-.17100	-.23600	-.23600	-.21700	-.21000
.165	4.900	.00514	.01698	-.13300	.02200	-.16600	-.17300	-.19800	-.22500	-.20500	-.19400
.165	9.900	.00542	.01710	-.16800	.02500	-.17500	-.18200	-.17400	-.22800	-.21400	-.20300
.165	14.900	.00613	.01912	-.20700	.03100	-.19800	-.20200	-.20700	-.25600	-.23000	-.23000
.165	19.900	.00932	.02743	-.28100	.04200	-.30100	-.30900	-.31200	-.33200	-.33400	-.32400
	GRADIENT	-.00001	-.00009	-.03678	.00105	.00040	.00041	.00226	.00110	.00126	.00064

REFERENCE DATA

SREF = 4.4120 SQ.FT. YMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 PREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

BETA = .000 FTM/P = 1.000
 M/B = .286 EDFLAP = -18.000
 ELEVON = 15.000

RUN NO. 51/ 0 RVL = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	CABC	CAB1	OME	ONE	OPBC	OPBS1	OPBS2	OPBS3	OPBS4	CPBS5
.165	-4.000	.00610	.01984	-.07700	.01100	-.19700	-.20800	-.23071	-.26100	-.24500	-.22700
.165	.000	.00531	.01775	-.08600	.01400	-.17800	-.17900	-.20100	-.24000	-.22700	-.20400
.165	4.900	.00479	.01728	-.12900	.01900	-.15500	-.18100	-.21300	-.21900	-.21600	-.19700
.165	9.900	.00529	.01765	-.16500	.02500	-.17100	-.18000	-.19300	-.24000	-.21700	-.21100
.165	14.900	.00630	.01967	-.19800	.03000	-.20300	-.21500	-.21000	-.26700	-.23700	-.22900
.165	19.900	.00936	.02770	-.27100	.04100	-.30300	-.31400	-.30400	-.34200	-.33000	-.33600
	GRADIENT	.00001	-.00000	-.00654	.00103	-.00002	-.00052	.00102	-.00004	.00032	-.00000

CA578 (NAAL 713) B16 C5 F1 J41 W87 E18

(NOVA52) (08 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. YMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 PREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

BETA = .000 FTM/P = 1.000
 M/B = .286 EDFLAP = -18.000
 ELEVON = .000

RUN NO. 52/ 0 RVL = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	CABC	CAB1	OME	ONE	OPBC	OPBS1	OPBS2	OPBS3	OPBS4	CPBS5
.165	-4.000	.00509	.01720	.07100	-.01000	-.16400	-.18700	-.19400	-.21900	-.21700	-.19600
.165	.000	.00444	.01588	.06200	-.00900	-.14300	-.16600	-.18100	-.20400	-.20000	-.18300
.165	4.900	.00402	.01504	.04800	-.00700	-.13000	-.14500	-.16000	-.20100	-.19100	-.16900
.165	9.900	.00450	.01608	.01500	-.00200	-.14500	-.16000	-.18400	-.21900	-.20200	-.17900
.165	14.900	.00552	.01719	-.02100	.00300	-.17800	-.18900	-.19500	-.22500	-.21600	-.19600
.165	19.900	.00734	.02210	-.08700	.01300	-.23700	-.24200	-.23900	-.28400	-.27300	-.26400
	GRADIENT	.00002	.00001	-.00488	.00070	-.00071	.00035	-.00023	-.00061	-.00006	.00003



CA578 (NAAL 713) B16 C5 F1 J41 W87 E18

(ROVAS33) (UR NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XREF = 43.5980 IN.
UREF = 19.2300 IN. YREF = .0000 IN.
BREF = 37.9350 IN. ZREF = -.4050 IN.
SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTM/P = 1.000
H/B = .286 EDFLAP = -18.000
ELEVON = .000

RUN NO. 53/ 0 RAVL = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	CABC	CAB1	OME	ONE	OPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-3.900	.00525	.01777	.05900	-.00900	-.17000	-.19800	-.20800	-.22200	-.22100	-.19700
.165	.000	.00463	.01676	.04900	-.00700	-.14900	-.18100	-.19600	-.21300	-.20900	-.18700
.165	4.900	.00431	.01577	.03900	-.00600	-.13900	-.16100	-.18900	-.20600	-.19800	-.17500
.165	9.900	.00479	.01673	.03800	-.00100	-.15500	-.18000	-.19700	-.21200	-.20900	-.18800
.165	14.900	.00532	.01768	-.02900	.00400	-.17200	-.18800	-.20400	-.23300	-.21800	-.19700
	19.900	.00778	.02304	-.05400	.01400	-.25200	-.24900	-.25800	-.29300	-.28200	-.27500
GRADIENT		.00001	-.00000	-.00461	.00068	-.00029	.00038	.00015	-.00049	.00008	-.00006

CA578 (NAAL 713) B16 C5 F1 J41 W87 E18

(ROVAS44) (UR NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XREF = 43.5980 IN.
UREF = 19.2300 IN. YREF = .0000 IN.
BREF = 37.9350 IN. ZREF = -.4050 IN.
SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTM/P = 1.000
H/B = .039 EDFLAP = -18.000
ELEVON = .000

RUN NO. 54/ 0 RAVL = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	CABC	CAB1	OME	ONE	OPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	9.900	.00523	.01768	-.01100	.00100	-.16900	-.18000	-.20600	-.23500	-.21900	-.20100
.165	15.000	.00564	.01890	-.09600	.01400	-.18200	-.19300	-.22900	-.25500	-.23400	-.20700
.165	19.900	.00840	.02556	-.27300	.00000	-.27200	-.24700	-.28600	-.33700	-.32600	-.30900
GRADIENT		.00008	.00024	-.01667	.00255	-.00255	-.00255	-.00353	-.00392	-.00294	-.00118

DATE 01 OCT 74

TABULATED SOURCE DATA - CA578

PAGE 26

CA578 (NAAL 713) 816 C5 F1 J41 W87 E18

(ROVA55) (08 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
UREF = 19.2300 IN. YMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

BETA = .000
FIN/P = 1.300
H/B = .029
UDFLAP = -18.000
ELEVON = .000

PARAMETRIC DATA

RUN NO. 55/ 0 RM/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	CABC	CAB1	OME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	9.900	.00543	.01774	-.01200	.00100	-.17500	-.17700	-.20200	-.23700	-.22200	-.20600
.165	14.900	.00559	.01893	-.03400	.01400	-.19000	-.18500	-.22100	-.24600	-.24400	-.21700
.165	19.900	.00576	.02631	-.19400	.03000	-.28000	-.25600	-.24600	-.35800	-.33100	-.31700
GRADIENT		.00003	.00024	-.01640	.00260	-.00100	-.00180	-.00380	-.00180	-.00440	-.00620

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
UREF = 19.2300 IN. YMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

BETA = .000
FIN/P = 1.000
H/B = .039
UDFLAP = -18.000
ELEVON = .000

PARAMETRIC DATA

RUN NO. 56/ 0 RM/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	CABC	CAB1	OME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	10.000	.00514	.01725	-.00800	.00100	-.16600	-.17900	-.19700	-.22600	-.21500	-.19900
.165	15.000	.00593	.01874	-.07900	.01200	-.19200	-.18500	-.21800	-.25200	-.23500	-.21300
.165	20.000	.00798	.02484	-.14100	.02700	-.25800	-.24000	-.26000	-.33900	-.31800	-.29600
GRADIENT		.00016	.00030	-.01420	.00220	-.00520	-.00120	-.00420	-.00520	-.00300	-.00290

CAS78 (NAAL 713) B16 C5 F1 J41 W87 E18

(ROVAS7) (01 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

BETA = .000 FTM/F = 1.332
 H/B = .125 EDFLAP = -18.700
 ELEVON = .000

PARAMETRIC DATA

RUN NO. 57/ 0 RM/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

WACH	ALPHA	CASC	CAB1	OME	ONE	OPBC	OPBS1	OPBS2	OPBS3	OPBS4	OPBS5
.165	-3.900	.02680	.02155	.08900	-.01900	-.22000	-.23900	-.24100	-.27300	-.26700	-.25300
.165	.000	.02682	.01896	.07400	-.01100	-.18400	-.20900	-.20900	-.24300	-.23400	-.22100
.165	4.900	.02821	.01720	.05300	-.00400	-.16800	-.17500	-.23800	-.22200	-.21300	-.19400
.165	9.900	.03478	.01675	.01500	.00200	-.15400	-.17900	-.19500	-.22200	-.20400	-.18600
.165	15.000	.03498	.01645	-.03600	.00800	-.16100	-.17900	-.18600	-.22100	-.21300	-.20100
.165	19.900	.03766	.02368	-.11100	.01700	-.24700	-.24500	-.25600	-.31900	-.29500	-.29400
GRADIENT	-.00010	-.00024	-.00024	-.00653	.00095	.00312	.00329	.00255	.00255	.00241	.00243

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

BETA = .000 FTM/F = 1.000
 H/B = .125 EDFLAP = -18.700
 ELEVON = .000

PARAMETRIC DATA

RUN NO. 58/ 0 RM/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

WACH	ALPHA	CASC	CAB1	OME	ONE	OPBC	OPBS1	OPBS2	OPBS3	OPBS4	OPBS5
.165	-3.900	.02625	.02047	.07200	-.01100	-.20200	-.23300	-.24300	-.25400	-.25300	-.22300
.165	.000	.02670	.01911	.05700	-.00800	-.18400	-.21100	-.22200	-.24200	-.23800	-.21200
.165	4.900	.02482	.01723	.04100	-.00600	-.15600	-.18400	-.20600	-.21800	-.21300	-.19400
.165	10.000	.02605	.01687	.00200	.00000	-.16300	-.17600	-.19800	-.22000	-.21000	-.19000
.165	15.000	.02612	.01752	-.04500	.00600	-.16500	-.16600	-.20100	-.23900	-.22000	-.20400
.165	19.900	.02797	.02357	-.12300	.01800	-.25800	-.25400	-.26100	-.31200	-.28800	-.28300
GRADIENT	-.00006	-.00017	-.00017	-.00608	.00088	.00193	.00350	.00221	.00103	.00192	.00121

CAS78 (NAAL 713) B16 C5 F1 J41 W87 E18

(ROVAS8) (01 NOV 73)

REFERENCE DATA

SCEF = 4.4120 SQ.FT. 1MGP = 43.5980 IN.
UREF = 19.2300 IN. 1MGP = .0000 IN.
BREF = 37.9350 IN. 2MGP = -.4080 IN.
SCALE = .0405

RUN NO. 59/ 0 RVL = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

M401	ALPHA	CABC	CAB1	J4E	ONE	OTC	CPB51	CPB52	CPB53	CPB54	CPB55
.165	-4.000	.03843	.01726	.09200	-.01400	-.17700	-.18300	-.18300	-.22300	-.21500	-.21500
.165	.000	.03496	.01557	.07200	-.01100	-.16200	-.16300	-.16200	-.20200	-.19500	-.19500
.165	4.900	.03465	.01433	.04000	-.00800	-.15000	-.14900	-.14900	-.18900	-.17900	-.17900
.165	9.900	.03409	.01257	.03000	.00000	-.13200	-.13500	-.14400	-.16300	-.15300	-.14200
.165	14.900	.03361	.01272	-.07000	.01000	-.11600	-.13900	-.13600	-.14400	-.16200	-.16700
.165	19.900	.03363	.01141	-.14200	.02100	-.11700	-.11800	-.12300	-.13200	-.14500	-.15200
GRADIENT		-.00011	-.00025	-.00435	.00124	.00358	.00214	.00233	.00413	.00308	.00422

CA578 (NVAL 713) B16 C5 F1 J42 M87 E18

(QVARE) (JUN 73)

REFERENCE DATA

SCEF = 4.4120 SQ.FT. 1MGP = 43.5980 IN.
UREF = 19.2300 IN. 1MGP = .0000 IN.
BREF = 37.9350 IN. 2MGP = -.4080 IN.
SCALE = .0405

RUN NO. 60/ 0 RVL = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

M401	ALPHA	CABC	CAB1	OME	ONE	OTC	CPB51	CPB52	CPB53	CPB54	CPB55
.165	-4.000	.03847	.01630	.08700	-.01300	-.17700	-.18300	-.17900	-.20900	-.20400	-.19400
.165	.000	.03605	.01512	.07400	-.01100	-.16300	-.16200	-.16400	-.19600	-.18700	-.18400
.165	4.900	.03429	.01409	.04200	-.00800	-.13900	-.14800	-.15500	-.18300	-.17300	-.16400
.165	9.900	.03429	.01375	.03200	.00000	-.13400	-.15000	-.15600	-.16500	-.17000	-.16400
.165	14.900	.03442	.01405	-.06000	.00900	-.14300	-.14800	-.14400	-.16100	-.18200	-.19200
.165	19.900	.03486	.01553	-.12900	.01900	-.15700	-.16400	-.17000	-.18300	-.19500	-.20200
GRADIENT		-.00006	-.00012	-.00773	.00116	.00191	.00111	.00162	.00285	.00124	.00445

DATE 01 OCT 74

(NOVAR1) (01 NOV 72)

TABULATED SOURCE DATA - CAS78
CAS78 (NAAL 713) 816 C5 F1 J42 M87 E18

PAGAMETRIC DATA

REFERENCE DATA

REF = 4.4120 SQ.FT. 1MGP = 43.5980 IN.
LREF = 19.2300 IN. 1MGP = .0000 IN.
DREF = 37.9350 IN. 2MGP = -.4050 IN.
SCALE = .0005

RUN NO. 61/0 RVL = 1.20 GRADIENT INTERVAL = -4.00/16.00

MAOH	ALPHA	CABC	CAB1	OME	ONE	CFBC	CFB1	CFB2	CFB3	CFB4	CFB5
.165	-4.000	.02504	.01675	.00400	-.01200	-.16300	-.17700	-.18200	-.21100	-.21100	-.25000
.165	.000	.02473	.01595	.07500	-.01000	-.15300	-.17000	-.17500	-.21200	-.19400	.19300
.165	4.900	.02409	.01532	.03800	-.01600	-.13200	-.15300	-.17600	-.24000	-.18400	-.18100
.165	9.900	.02453	.01549	-.03400	.01100	-.14600	-.15300	-.17300	-.19200	-.15500	-.15900
.165	14.900	.02512	.01624	-.05300	.01800	-.16500	-.17100	-.17900	-.24700	-.19600	-.15900
.165	19.900	.02700	.02186	-.11600	.01600	-.22600	-.23600	-.25200	-.26100	-.26600	-.27400
GRADIENT		.00000	-.00003	-.00734	.00106	.00001	.00006	.00015	.00024	.00090	.00013

(NOVAR2) (01 NOV 73)

CAS78 (NAAL 713) 816 C5 F1 J42 M87 E18

PAGAMETRIC DATA

REFERENCE DATA

REF = 4.4120 SQ.FT. 1MGP = 43.5980 IN.
LREF = 19.2300 IN. 1MGP = .0000 IN.
DREF = 37.9350 IN. 2MGP = -.4050 IN.
SCALE = .0005

RUN NO. 62/0 RVL = 1.20 GRADIENT INTERVAL = -4.00/16.00

MAOH	ALPHA	CABC	CAB1	OME	ONE	CFBC	CFB1	CFB2	CFB3	CFB4	CFB5
.165	9.900	.02491	.01440	-.01900	.00300	-.15900	-.17300	-.16700	-.16300	-.18600	-.15000
.165	14.900	.02507	.03378	-.10500	.01600	-.94000	-.15550	-.15100	-.09700	-.10900	-.12400
.165	19.900	.02688	.01084	-.18900	.02800	-.09300	-.09400	-.12600	-.14700	-.15000	-.12100
GRADIENT		.00483	.00378	-.01720	.00260	-.15620	-.27700	.01320	.01440	.01540	.01140

DATE 01 OCT 74 TABULATED SOURCE DATA - CA578 FACE 30

CA578 (NAAL 713) 816 C5 F1 J42 W87 E18 (EDVA63) (OR NEW 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN. BETA = .000 FTNVP = 1.300

UREF = 19.2300 IN. YMRP = .0000 IN. H/B = .039 EDOFLAP = -18.000

GREF = 37.9350 IN. ZMRP = -.4050 IN. ELEVON = .000

SCALE = .040E

RUN NO. 63/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4 U/ 16.00

MACH	ALPHA	CABC	CAB1	C4WE	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	9.900	.00466	.01496	-.11700	.00200	-.15000	-.16800	-.15500	-.17400	-.18600	-.19700
.165	14.900	.00438	.01387	-.10100	.01500	-.14100	-.15100	-.15500	-.17500	-.18600	-.19900
.165	19.900	.00507	.01612	-.18700	.02800	-.16400	-.16400	-.18600	-.19900	-.19400	-.20500
GRADIENT		-.00706	-.00022	-.01680	.00260	.00180	.00340	.00000	-.00020	.00400	.00800

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN. BETA = .000 FTNVP = 1.000

UREF = 19.2300 IN. YMRP = .0000 IN. H/B = .039 EDOFLAP = -18.000

GREF = 37.9350 IN. ZMRP = -.4050 IN. ELEVON = .000

SCALE = .040E

RUN NO. 64/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.000 16.00

MACH	ALPHA	CABC	CAB1	C4WE	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	9.900	.00478	.01519	-.02200	.00300	-.15400	-.16600	-.16700	-.18900	-.18500	-.18800
.165	15.000	.00513	.01611	-.09700	.01400	-.16600	-.17700	-.18800	-.19600	-.19000	-.19600
.165	19.900	.00790	.02504	-.17700	.02700	-.25500	-.26700	-.28800	-.29700	-.30700	-.31600
GRADIENT		.00007	.00018	-.01490	.00216	-.00235	-.00216	-.00412	-.00037	-.00098	-.00157

DATE 01 OCT 74

TABULATED SOURCE DATA - CA578

PAGE 31

CA578 (NAVAL 713) B16 C5 F1 J42 W87 E18

(RDVARS) (LA NEW 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTM/F = 1.500
 H/B = .125 EDFLAF = -18.000
 ELEVON = .000

RUN NO. 65/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	CABC	CAB1	CME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-3.900	.02830	.01605	.08900	-.01300	-.17100	-.17000	-.16400	-.20800	-.20300	-.20000
.165	.000	.00475	.01571	.07500	-.01100	-.15900	-.16700	-.17000	-.21000	-.19400	-.19400
.165	4.900	.00279	.01433	.04300	-.00600	-.12900	-.13800	-.15700	-.19200	-.17400	-.17600
.165	9.900	.00356	.01225	.00400	.00000	-.11500	-.13300	-.13200	-.15300	-.15500	-.14700
.165	14.900	.00346	.01270	-.05300	.00800	-.11200	-.12900	-.14400	-.15100	-.15700	-.16600
.165	19.900	.00360	.01268	-.12800	.01900	-.11600	-.12800	-.14100	-.14900	-.15800	-.17000
GRADIENT	-.00010	-.00021	-.00021	-.00733	.00112	.00326	.00244	.00166	.00364	.00276	.00218

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTM/F = 1.500
 H/B = .125 EDFLAF = -18.000
 ELEVON = .000

RUN NO. 66/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	CABC	CAB1	CME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-3.900	.02806	.01630	.08800	-.01300	-.16300	-.17200	-.17800	-.21300	-.20400	-.19200
.165	.000	.00449	.01555	.07400	-.01100	-.14500	-.15100	-.17100	-.21000	-.19300	-.18900
.165	4.900	.00384	.01426	.04400	-.00600	-.12400	-.14000	-.16200	-.18900	-.17800	-.17000
.165	9.900	.00385	.01327	.00500	.00000	-.12400	-.13900	-.14400	-.16900	-.16500	-.16400
.165	14.900	.00413	.01367	-.06000	.00700	-.13300	-.15200	-.15100	-.16200	-.16600	-.17300
.165	19.900	.00477	.01598	-.12300	.01800	-.15400	-.16600	-.18300	-.18400	-.19500	-.20800
GRADIENT	-.00005	-.00016	-.00016	-.00728	.00108	.00165	.00104	.00169	.00301	.00217	.00131

CA578 (NAAL 713) B16 C5 F1 J42 W87 E18

(RDVA67) (US NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTM/F = 1.000
 HVB = .125 EDFLAF = -18.000
 ELEVON = .000

RUN NO. 67/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	CABC	CAB1	CME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-4.000	.0020	.01660	.08500	-.01300	-.16800	-.17800	-.18700	-.21000	-.20600	-.19700
.165	.000	.00471	.01629	.07000	-.01000	-.15200	-.16200	-.17900	-.22000	-.20300	-.19400
.165	4.900	.00424	.01498	.04000	-.00600	-.13700	-.14900	-.17300	-.19600	-.18600	-.17800
.165	9.900	.00439	.01482	.00200	.00000	-.14200	-.15500	-.16000	-.18300	-.18000	-.18900
.165	14.900	.00492	.01669	-.05200	.00800	-.15900	-.19300	-.19100	-.19600	-.19400	-.20600
.165	19.900	.00674	.02127	-.11200	.01700	-.21800	-.24000	-.24100	-.24500	-.25900	-.26700
GRADIENT		-.00002	-.00003	-.00721	.00110	.00053	-.00065	.00020	.00127	.00087	-.00031

CA578 (NAAL 713) B16 C5 F1 J42 W87 E18

(RDVA68) (US NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTM/F = 1.500
 HVB = .286 EDFLAF = -18.000
 ELEVON = .000

RUN NO. 68/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	CABC	CAB1	CME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-3.900	.00380	.01366	.07400	-.01100	-.12300	-.13600	-.14400	-.18100	-.17000	-.17200
.165	.000	.00370	.01359	.06200	-.00800	-.11900	-.14400	-.15200	-.18100	-.16300	-.15900
.165	4.900	.00358	.01258	.03800	-.00500	-.11600	-.12800	-.14000	-.16300	-.15500	-.15200
.165	9.900	.00329	.01105	.01300	-.00100	-.10600	-.11400	-.12100	-.14300	-.13800	-.13300
.165	15.000	.00425	.01337	-.03200	.00500	-.13700	-.14300	-.15000	-.16000	-.16000	-.17200
.165	19.900	.00436	.01425	-.10000	.01500	-.14100	-.15300	-.15800	-.17700	-.16900	-.18300
GRADIENT		.00001	-.00006	-.00651	.00084	-.00035	.00033	.00039	.00167	.00083	.00049



DATE 01 OCT 74

TABULATED SOURCE DATA - CA578

PAGE 33

CA578 (NAAL 713) 816 C5 F1 J42 W87 E18

(RDVA69) (03 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

BETA = .000 FTV/P = 1.000
 H/B = .286 EDPLAP = -18.000
 ELEVON = .000

PARAMETRIC DATA

RUN NO. 69/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	CABC	CAB1	C4ME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-3.900	.00400	.01391	.07400	-.01100	-.12900	-.13900	-.15100	-.18300	-.17700	-.16800
.165	.000	.00356	.01326	.06300	-.00900	-.11500	-.13000	-.14900	-.17800	-.16400	-.16000
.165	5.000	.00352	.01285	.03900	-.03600	-.11300	-.12800	-.14700	-.16600	-.15900	-.15600
.165	10.000	.00355	.01270	.01300	-.00200	-.11400	-.13200	-.13600	-.16000	-.16000	-.16000
.165	14.900	.00422	.01391	-.03000	.00400	-.13600	-.15600	-.15700	-.16300	-.16700	-.17600
.165	19.900	.00488	.01532	-.09200	.01400	-.15800	-.16900	-.17500	-.18600	-.18400	-.18700
GRADIENT		.00001	-.00001	-.00545	.00078	-.00032	-.00079	.00004	.00121	.00047	-.00037

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

BETA = .000 FTV/P = 1.000
 H/B = .286 EDPLAP = -18.000
 ELEVON = .000

PARAMETRIC DATA

RUN NO. 70/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	CABC	CAB1	C4ME	ONE	CPBC	CPBS1	CPBS2	CPBS3	CPBS4	CPBS5
.165	-4.000	.00411	.01441	.07100	-.01000	-.13300	-.14300	-.16100	-.19100	-.19500	-.16700
.165	.000	.00362	.01357	.06300	-.00900	-.11700	-.13300	-.15100	-.17800	-.17200	-.16500
.165	4.900	.00388	.01361	.03400	-.00500	-.12500	-.13800	-.15400	-.17300	-.16800	-.16600
.165	9.900	.00397	.01344	.01200	-.00100	-.12800	-.13600	-.14700	-.17300	-.16900	-.16600
.165	14.900	.00463	.01528	-.03500	.00500	-.15000	-.16700	-.17800	-.18000	-.18200	-.19200
.165	19.900	.00615	.01896	-.08500	.01200	-.19900	-.20800	-.22000	-.22700	-.23100	-.23000
GRADIENT		.00003	.00004	-.00548	.00080	-.00099	-.00111	-.00067	.00063	.00015	-.00110

CA578 (NAAL 713) 816 C5 F1 J42 W87 E18

(RDVA70) (03 NOV 73)

DATE 01 OCT 74 TABULATED SOURCE DATA - CA578

CA578 (NAAL 713) B12 C3 J42 W87 F18 (RDVA71) (08 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
LREF = 19.2300 IN. YMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

RUN NO. 71/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

PACAMETRIC DATA

BETA = .000 PTN/P = 1.000
HVB = .286 ELEVON = .000

MACH	ALPHA	ONE	ONE
.165	-4.000	.07100	-.01000
.165	.000	.06000	-.00800
.165	4.900	.03900	-.00600
.165	10.000	.01200	-.00100
.165	14.900	-.03100	.00400
.165	19.900	-.09500	.01400
	GRADIENT	-.00530	.00076

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
LREF = 19.2300 IN. YMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

RUN NO. 72/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

PACAMETRIC DATA

BETA = .000 PTN/P = 1.000
HVB = .286 ELEVON = .000

MACH	ALPHA	ONE	ONE
.165	-3.900	.06900	-.01000
.165	.000	.06700	-.00800
.165	4.900	.03300	-.00500
.165	10.000	.01100	-.00100
.165	14.900	-.03600	.00800
.165	19.900	-.08700	.01300
	GRADIENT	-.00541	.00078



CA578 (NAAL 713) B16 C5 F1 J40 W87 E18 (RDV203) (UR NEW 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

RUN NO. 3/ 0 RVL = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	Q(FSF)	FSTAT	QTFB1	QTFB2	QTFB3	CFBFF1	CFBFF2	CFBFF3	H/B
.165	9.900	61.90000	2115.39999	-.04100	-.21600	-.21000	-.33100	-.44000	-.28100	.03200
.165	15.000	62.90000	2116.20001	-.06900	-.22200	-.21400	-.35000	-.71800	-.37400	.03000
.165	20.000	63.50000	2117.00000	-.16200	-.30000	-.30300	-.29200	-.96300	-.41800	.02900
	GRADIENT	.19608	.15690	-.00529	-.00118	-.00078	-.00373	-.05451	-.01824	-.00039

PARAMETRIC DATA

BETA = .000 FTV/F = 1.000
 H/B = .039 LDFLAF = -18.000
 ELEVON = .000

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18 (RDV203) (UR NEW 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

RUN NO. 4/ 0 RVL = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	Q(FSF)	FSTAT	QTFB1	QTFB2	QTFB3	CFBFF1	CFBFF2	CFBFF3	H/B
.165	9.900	61.80000	2116.50000	-.09300	-.20400	-.21400	-.52000	-1.12400	-.46200	.03200
.165	15.000	62.70000	2116.89999	-.06500	-.22800	-.21500	-.47100	-1.48300	-.54400	.03000
.165	19.900	63.40000	2118.10001	-.20100	-.30600	-.31200	-.36500	-1.45400	-.54900	.02900
	GRADIENT	.17647	.07847	.00549	-.00471	-.00020	.00961	-.07039	-.01608	-.00039

PARAMETRIC DATA

BETA = .000 FTV/F = 1.000
 H/B = .039 LDFLAF = -18.000
 ELEVON = .000

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18 (RDV203) (UR NEW 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

RUN NO. 5/ 0 RVL = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	Q(FSF)	FSTAT	QTFB1	QTFB2	QTFB3	CFBFF1	CFBFF2	CFBFF3	H/B
.165	9.900	62.50000	2116.60001	-.11300	-.20100	-.20000	-.62100	-1.84100	-.43300	.03200
.165	14.900	62.30000	2117.20001	-.11000	-.21600	-.22000	-.53500	-2.23500	-.81200	.03100
.165	19.900	63.40000	2118.60001	-.24700	-.30900	-.31800	-.44600	-2.17500	-.50300	.02900
	GRADIENT	-.04900	.12000	.00000	-.00000	-.00000	-.00000	-.00000	-.00000	-.00000

PARAMETRIC DATA

BETA = .000 FTV/F = 1.000
 H/B = .039 LDFLAF = -18.000
 ELEVON = .000

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

(REV207) (08 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

RUN NO. 6/ 0 RVL = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	Q(PSF)	FSTAT	CPTBF1	CPTBF2	CPTBF3	CFBDF1	CFBDF2	CFBDF3	H/E
.165	-3.900	60.8000	2116.39999	-.03500	-.19400	-.18700	-.23000	-.36400	-.26200	.12800
.165	.000	61.1000	2115.79999	-.04100	-.18800	-.17400	-.25800	-.35000	-.21400	.12500
.165	4.900	61.5000	2115.60001	-.06900	-.18300	-.15700	-.26300	-.34100	-.26500	.12100
.165	10.000	61.8000	2115.89999	-.02300	-.17800	-.17400	-.25900	-.38500	-.22400	.11800
.165	14.900	62.4000	2115.79999	.03700	-.19100	-.17500	-.27100	-.53200	-.27000	.11600
.165	19.900	63.2000	2117.39999	-.06100	-.29200	-.29600	-.30200	-.74000	-.34400	.11500
	GRADIENT	.06201	-.02162	.00350	.00032	.00046	-.00169	-.00799	-.00070	-.00065

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

(REV207) (08 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

RUN NO. 7/ 0 RVL = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	Q(PSF)	FSTAT	CPTBF1	CPTBF2	CPTBF3	CFBDF1	CFBDF2	CFBDF3	H/E
.165	-3.900	60.3000	2117.10001	-.07700	-.19900	-.19600	-.25200	-.51700	-.33900	.12800
.165	.000	61.3000	2117.10001	-.06800	-.19500	-.18900	-.25000	-.45900	-.30100	.12500
.165	4.900	61.8000	2116.89999	-.09000	-.17800	-.15700	-.28400	-.43100	-.28400	.12100
.165	9.900	62.1000	2117.20001	-.03200	-.16800	-.16800	-.28000	-.59900	-.29500	.11800
.165	14.900	62.9000	2117.79999	.04800	-.18900	-.17000	-.28900	-.70000	-.28200	.11600
.165	19.900	62.8000	2117.79999	-.08700	-.26900	-.27100	-.34800	-.85800	-.34400	.11500
	GRADIENT	.12519	.03248	.00613	.00097	.00150	-.00219	-.01011	.00242	-.00065

PARAMETRIC DATA

BETA = .000 FTM/F = 1.000
 HVB = .125 EDFLAP = -18.000
 ELEVON = .000

PARAMETRIC DATA

BETA = .000 FTM/F = 1.000
 HVB = .125 EDFLAP = -18.000
 ELEVON = .000

(REVZ11) (01 NOV 73)

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTM/F = 1.000
 H/B = .125 EDPLAF = .000
 ELEVON = .000

RUN NO. 10/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	Q(PSF)	PSTAT	OPTBF1	OPTBF2	OPTBF3	CPBF1	CPBF2	CPBF3	H/B
.165	-4.000	60.70000	2117.99999	-13500	-23500	-17100	-16500	-12700	-10000	.12800
.165	.000	60.80000	2117.90000	-16000	-20200	-15200	-13200	-10200	-05600	.12500
.165	4.900	61.70000	2117.99999	-15700	-19400	-13700	-10700	-06500	.01100	.12100
.165	9.900	62.40000	2117.60001	-16400	-22100	-15600	-10400	-02300	.05100	.11800
.165	14.900	62.80000	2117.79999	-20900	-23300	-22000	-01100	.02000	.04200	.11600
.165	19.900	63.30000	2118.29999	-29800	-29800	-30300	.04000	.05200	.09200	.11500
	GRADIENT	.12212	-.00099	-.00293	-.00041	-.00246	.00918	.00794	.00994	-.00065

(REVZ11) (01 NOV 73)

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTM/F = 1.000
 H/B = .125 EDPLAF = .000
 ELEVON = .000

RUN NO. 11/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	Q(PSF)	PSTAT	OPTBF1	OPTBF2	OPTBF3	CPBF1	CPBF2	CPBF3	H/B
.165	-4.000	60.30000	2116.99999	-14900	-23000	-17400	-14600	-11500	-08300	.12800
.165	.000	60.30000	2116.10001	-15200	-20800	-15600	-12100	-11800	-03200	.12500
.165	4.900	61.90000	2115.70001	-15700	-18900	-13100	-09100	-07800	.01900	.12100
.165	9.900	61.70000	2116.10001	-16400	-21200	-17000	-04600	-04600	.04200	.11800
.165	14.900	62.10000	2116.70001	-19300	-23900	-20100	-01600	-.00600	.06700	.11600
.165	19.900	62.60000	2117.99999	-29000	-28700	-30100	-00100	-.00100	.07400	.11500
	GRADIENT	.10463	.01409	-.00212	-.00029	-.00152	.00703	.00770	.00778	-.00065



CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

(RDV212) (UN NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTM/F = 1.000
 HVB = .286 EDFLAP = .000
 ELEVON = .000

RUN NO. 12/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

WACH	ALPHA	Q(PSE)	PSTAT	QPTBF1	QPTBF2	QPTBF3	CFBPF1	CFBPF2	CFBPF3	HVB
.165	-4.000	60.10000	2119.89999	-1.15600	-1.18500	-1.14500	-1.17300	-1.07700	-1.05200	.29300
.165	.000	60.90000	2119.29999	-1.15300	-1.18000	-1.13200	-1.13700	-.06200	-.04400	.28600
.165	4.900	60.80000	2118.29999	-1.13500	-1.16300	-1.10400	-1.11100	-.02400	.00300	.28200
.165	9.900	61.80000	2119.00000	-1.14300	-1.19200	-1.14100	-1.10500	-.00400	.02100	.27900
.165	15.000	61.50000	2118.70000	-1.16000	-1.21500	-1.16200	-.09100	-.00100	.03600	.27800
.165	19.900	63.20000	2119.10000	-1.26000	-1.27300	-1.27100	-1.18600	-.00800	.01600	.27700
	GRADIENT	.07623	-.05464	.00001	-.00157	-.00098	.00403	.00414	.00493	-.00064

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = .5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTM/F = 1.000
 HVB = .286 EDFLAP = .000
 ELEVON = .000

RUN NO. 13/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

WACH	ALPHA	Q(PSE)	PSTAT	QPTBF1	QPTBF2	QPTBF3	CFBPF1	CFBPF2	CFBPF3	HVB
.165	-4.000	60.60000	2118.29999	-1.14900	-1.20100	-1.14600	-1.16100	-1.10700	-1.04100	.29300
.165	.000	60.90000	2117.79999	-1.14800	-1.18800	-1.13900	-1.13500	-.08600	-.02800	.28600
.165	4.900	61.30000	2117.50000	-1.15300	-1.18400	-1.13000	-1.11600	-.05500	.00100	.28200
.165	9.900	61.80000	2117.50000	-1.14900	-1.23500	-1.15400	-1.10400	-.03400	.01800	.27900
.165	14.900	62.70000	2117.89999	-1.17600	-1.23700	-1.18600	-.09500	-.02700	.02300	.27800
.165	20.000	63.00000	2118.29999	-1.26000	-1.29000	-1.27100	-.09700	-.03700	.04200	.27700
	GRADIENT	.10748	-.02172	-.00117	-.00194	-.00205	.00338	.00442	.00364	-.00064

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

(REV214) (OR NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0005

PARAMETRIC DATA

BETA = .000 FTM/P = 1.000
 H/B = .286 EDFLAP = .000
 ELEVON = .000

RUN NO. 14/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAC	ALPHA	Q(PSF)	PSTAT	QPTBF1	QPTBF2	QPTBF3	QPRBF1	QPRBF2	QPRBF3	H/B
.165	-4.000	61.0000	2119.39999	-.16000	-.20300	-.14700	-.15400	-.10600	-.02000	.28000
.165	.000	61.0000	2118.89999	-.14400	-.19100	-.13100	-.12500	-.04500	-.02400	.28000
.165	4.900	61.0000	2118.79999	-.15800	-.18800	-.13100	-.11400	-.02200	.00600	.28000
.165	9.900	61.0000	2118.50000	-.14800	-.19500	-.14500	-.09800	-.00600	.00300	.27900
.165	14.900	62.7000	2118.60000	-.17100	-.22400	-.18100	-.09100	-.00200	.00400	.27800
.165	20.000	63.3000	2119.29999	-.28400	-.28100	-.28100	-.10500	-.01400	.00300	.27700
	GRADIENT	.08661	-.04114	-.00068	-.00102	-.00179	.00317	.00307	.00332	-.00064

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

(REV215) (OR NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0005

PARAMETRIC DATA

BETA = .000 FTM/P = 1.000
 H/B = .286 EDFLAP = -.18.000
 ELEVON = .000

RUN NO. 15/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAC	ALPHA	Q(PSF)	PSTAT	QPTBF1	QPTBF2	QPTBF3	QPRBF1	QPRBF2	QPRBF3	H/B
.165	-3.900	56.7000	2118.20000	-.15800	-.20100	-.14100	-.15900	-.10600	-.03300	.28000
.165	.000	60.9000	2118.10000	-.15400	-.19500	-.14400	-.13700	-.04700	-.03500	.28000
.165	4.900	61.3000	2117.39999	-.15600	-.18400	-.13400	-.11300	-.02200	-.00500	.28000
.165	10.000	61.9000	2117.50000	-.15300	-.19600	-.15600	-.10800	-.04300	.01100	.27900
.165	14.900	62.1000	2117.89999	-.19900	-.22700	-.19300	-.09700	-.02900	.02000	.27800
.165	19.900	63.2000	2118.39999	-.31200	-.26600	-.29000	-.10100	-.03900	.00200	.27700
	GRADIENT	.16008	-.02443	-.00174	-.00116	-.00248	.00318	.00409	.00341	-.00061



(REV 216) (01 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. WAGF = 43.5980 IN.
 UREF = 19.2300 IN. WAGF = .0000 IN.
 BREF = 37.9350 IN. WAGF = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTM/F = 1.500
 W/B = .286 BDFLAP = -18.000
 ELEVON = .000

RUN NO. 16/ 0 RW/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOY	ALPHA	Q(PSF)	PSTAT	QPTBF1	QPTBF2	QPTBF3	QPSBF1	QPSBF2	QPSBF3	W/B
.165	-3.900	60.5000	2115.0000	-.06700	-.19000	-.17700	-.23700	-.27800	-.24900	.28900
.165	.000	61.6000	2114.7000	-.05700	-.17200	-.16400	-.23100	-.26500	-.24100	.28600
.165	4.900	62.2000	2114.6000	-.01800	-.16500	-.14900	-.22800	-.26600	-.21900	.28200
.165	9.900	62.4000	2114.6000	.01000	-.17000	-.16100	-.24600	-.26000	-.14900	.27900
.165	15.000	62.6000	2114.1000	.03500	-.19000	-.16800	-.24600	-.26200	-.19000	.27500
.165	19.900	63.9000	2114.6000	-.01300	-.25200	-.24100	-.24600	-.32000	-.24000	.27700
	GRADIENT	.10267	-.03973	.00830	-.00003	.00039	-.00072	.00075	.00075	-.00461

CAS78 (NAAL 713) B16 C5 F1 J40 M47 E18

(REV 217) (01 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. WAGF = 43.5980 IN.
 UREF = 19.2300 IN. WAGF = .0000 IN.
 BREF = 37.9350 IN. WAGF = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTM/F = 1.300
 W/B = .286 BDFLAP = -14.000
 ELEVON = .000

RUN NO. 17/ 0 RW/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOY	ALPHA	Q(PSF)	PSTAT	QPTBF1	QPTBF2	QPTBF3	QPSBF1	QPSBF2	QPSBF3	W/B
.165	-3.900	60.7000	2114.6000	-.06700	-.18800	-.17900	-.21900	-.26700	-.31400	.28900
.165	.000	61.2000	2114.2000	-.05600	-.17300	-.16500	-.22300	-.26100	-.35100	.28600
.165	4.900	61.4000	2113.6000	-.02000	-.15900	-.15100	-.20400	-.25000	-.33200	.28200
.165	9.900	62.2000	2113.7000	.02400	-.16900	-.15600	-.20700	-.25200	-.35600	.27900
.165	14.900	62.4000	2113.79999	.04500	-.19800	-.17700	-.22400	-.26000	-.36200	.27500
.165	20.000	62.9000	2114.29999	-.02000	-.27100	-.25900	-.28900	-.32100	-.34100	.27700
	GRADIENT	.10969	-.04305	.00643	-.00041	.00022	.00011	.00046	-.00204	-.00461

C4578 (MAYAL 713) 816 C5 F1 J40 W47 E18

(REV.14) (14 NOV 73)

REFERENCE DATA

SCEF = 4.4120 SQ.FT. WREF = 43.5980 IN.
UREF = 19.2300 IN. WREF = .0000 IN.
BREF = 37.9350 IN. WREF = -.4050 IN.
SCALE = .0405

FATAMETRIC DATA

BETA = .000 FTM/F = 1.000
W/B = .000 EOLAF = -18.000
ELEVON = .000

RUN NO. 18/ 0 RM/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

W/B	ALPHA	3(PSF)	PSTAT	OPTBF1	OPTBF2	OPTBF3	OPBF1	OPBF2	OPBF3	W/B
.165	-3.900	60.8000	2113.70001	-.05200	-.19000	-.17700	-.18100	-.24500	-.33100	.24900
.165	.000	61.7000	2113.89999	-.06600	-.18300	-.17200	-.19200	-.24400	-.29500	.24800
.165	4.900	61.3000	2113.00000	-.03500	-.17800	-.16500	-.19400	-.23600	-.32000	.24200
.165	9.900	61.7000	2113.00000	.00000	-.18900	-.17900	-.19000	-.23500	-.34100	.27900
.165	14.900	63.1000	2112.89999	.02900	-.20900	-.18200	-.20000	-.24300	-.34200	.27700
.165	19.900	62.9000	2113.70001	-.03200	-.27800	-.25500	-.24000	-.29600	-.44200	.27700
GRADIENT		.03643	-.05249	.00494	-.00097	-.00039	-.00071	.00035	-.00024	-.00061

REFERENCE DATA

SCEF = 4.4120 SQ.FT. WREF = 43.5980 IN.
UREF = 19.2300 IN. WREF = .0000 IN.
BREF = 37.9350 IN. WREF = -.4050 IN.
SCALE = .0405

FATAMETRIC DATA

BETA = .000 FTM/F = 1.000
W/B = .000 EOLAF = 20.000
ELEVON = .000

RUN NO. 19/ 0 RM/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

W/B	ALPHA	3(PSF)	PSTAT	OPTBF1	OPTBF2	OPTBF3	OPBF1	OPBF2	OPBF3	W/B
.165	-3.900	60.4000	2113.20001	-.31200	-.25700	-.24900	.03400	.26100	.24900	.24900
.165	.000	61.6000	2113.99999	-.33000	-.27500	-.29600	.06000	.23500	.24300	.24600
.165	4.900	61.4000	2111.70001	-.32000	-.26700	-.26600	.14600	.27700	.27500	.24200
.165	9.900	62.4000	2112.20001	-.36000	-.28400	-.28500	.18400	.27800	.30100	.27900
.165	14.900	62.7000	2111.79999	-.39000	-.32500	-.29500	.26900	.27800	.34900	.27900
.165	19.900	63.7000	2113.50000	-.51300	-.34800	-.36100	.27100	.31300	.34900	.27700
GRADIENT		.11247	-.08411	-.00394	-.00007	-.00004	.01255	.00287	.00000	-.00061

DATE 01 OCT 74

TABULATED SOURCE DATA - CA578

PAGE 43

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

(REV 12J) (01 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ. FT. WREF = 43.5380 IN.
 UREF = 19.2300 IN. WREF = .0000 IN.
 BREF = 37.9350 IN. WREF = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PIN/P = 1.300
 HVB = .256 RDRAP = 20.000
 ELEVON = .000

RUN NO. 21/ 0 RVAL = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAON	ALPHA	Q(FSF)	FSTAT	QPTBF1	QPTBF2	QPTBF3	QPREF1	QPREF2	QPREF3	HVB
.165	-3.900	60.30000	2112.55599	-.25800	-.25200	-.25900	.04400	.21900	.21800	.29000
.165	.000	60.30000	2112.20000	-.31000	-.25700	-.27900	.06700	.23100	.21700	.24600
.165	4.900	61.30000	2111.71001	-.31400	-.28000	-.25900	.13000	.23700	.25600	.24200
.165	9.900	62.10000	2111.29999	-.33500	-.28000	-.24700	.19400	.27200	.34800	.27900
.165	14.900	62.30000	2111.70001	-.43100	-.31900	-.29500	.25100	.29500	.33600	.27900
.165	19.900	62.70000	2112.29999	-.48600	-.33000	-.33400	.29100	.32300	.34900	.27700
	GRADIENT	.10960	-.04780	-.00687	-.00335	.00167	.01144	.00345	.02706	-.00065

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

(REV 12J) (01 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ. FT. WREF = 43.5380 IN.
 UREF = 19.2300 IN. WREF = .0000 IN.
 BREF = 37.9350 IN. WREF = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PIN/P = 1.000
 HVB = .256 RDRAP = 20.000
 ELEVON = .000

RUN NO. 21/ 0 RVAL = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAON	ALPHA	Q(FSF)	FSTAT	QPTBF1	QPTBF2	QPTBF3	QPREF1	QPREF2	QPREF3	HVB
.165	-3.900	60.30000	2111.50000	-.28900	-.23900	-.20200	.05200	.05500	.17200	.29000
.165	.000	60.90000	2111.10001	-.28200	-.23700	-.21200	.09200	.07600	.17400	.24600
.165	5.000	61.30000	2110.79999	-.28400	-.25100	-.22600	.10700	.10900	.21300	.24200
.165	10.000	62.20000	2110.49999	-.32800	-.26000	-.23300	.16400	.12900	.14300	.27900
.165	15.000	62.20000	2110.70001	-.37100	-.27900	-.24500	.20300	.17100	.21600	.27900
.165	20.000	62.80000	2111.79999	-.44300	-.31600	-.29800	.21000	.19900	.22900	.27700
	GRADIENT	.10618	-.03690	-.00490	-.00218	-.00223	.00319	.00597	.00634	-.00060

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

(ROVZ22) (08 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. YMRP = 43.5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.500
 HVB = .125 EDFLAP = 20.000
 ELEVON = .000

RUN NO. 22/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	Q(PSF)	PSTAT	QPTBF1	QPTBF2	QPTBF3	CPBF1	CPBF2	CPBF3	HVB
.165	-3.900	61.20000	2113.50000	-.35400	-.30000	-.26900	-.06100	.2000	.12200	.12800
.165	.000	61.60000	2113.70001	-.35100	-.32200	-.31800	.02500	.19800	.19400	.12500
.165	5.000	62.40000	2113.10001	-.39200	-.32500	-.33400	.17200	.28600	.30300	.12100
.165	9.900	62.40000	2112.50000	-.42700	-.31600	-.34100	.32200	.40800	.40000	.11800
.165	14.900	62.20000	2113.10001	-.44500	-.36900	-.36600	.45600	.52000	.47600	.11600
.165	20.000	63.80000	2114.10001	-.50800	-.37300	-.40800	.51500	.61900	.53200	.11500
	GRADIENT	.05793	-.04234	-.00548	-.00278	-.00407	.02807	.01808	.01923	-.00065

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

(ROVZ23) (08 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. YMRP = 43.5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.500
 HVB = .125 EDFLAP = 20.000
 ELEVON = .000

RUN NO. 23/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	Q(PSF)	PSTAT	QPTBF1	QPTBF2	QPTBF3	CPBF1	CPBF2	CPBF3	HVB
.165	-3.900	60.90000	2113.39999	-.32600	-.29400	-.26000	-.05700	.06000	.14000	.12800
.165	.000	61.10000	2112.60001	-.34000	-.30000	-.30300	.06200	.20200	.22000	.12500
.165	4.900	61.40000	2112.60001	-.36800	-.31000	-.31000	.20600	.27800	.30600	.12100
.165	9.900	62.30000	2112.79999	-.42100	-.32700	-.34100	.32400	.37500	.37100	.11800
.165	15.000	62.70000	2113.39999	-.45300	-.35600	-.35400	.44300	.49700	.45600	.11600
.165	19.900	63.50000	2114.10001	-.48700	-.37900	-.40000	.52500	.59600	.50500	.11500
	GRADIENT	.10132	.00674	-.00706	-.00359	-.00469	.02639	.02184	.01637	-.00065



DATE 01 OCT 74 TABULATED SOURCE DATA - CA578

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

(RDVZ24) (OR NEW 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTN/P = 1.000
 HVB = .125 EDFLAP = 20.000
 ELEVON = .000

RUN NO. 24/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	Q(PSF)	PSTAT	QPTBF1	QPTBF2	QPTBF3	CFBFF1	CFBFF2	CFBFF3	HVB
.165	-3.000	60.2000	2112.2000	-.29300	-.24000	-.20200	-.05000	-.00200	.11100	.12300
.165	.000	60.8000	2111.79999	-.28800	-.25600	-.24700	.06000	.07600	.15200	.12500
.165	4.900	61.4000	2111.89999	-.32600	-.27900	-.27100	.17600	.13200	.24800	.12100
.165	10.000	61.8000	2111.79999	-.39100	-.28800	-.28200	.25000	.21700	.28800	.11900
.165	14.900	62.1000	2112.0000	-.40300	-.30200	-.28600	.31300	.30100	.35200	.11600
.165	19.900	62.7000	2113.1000	-.47600	-.31000	-.35800	.34400	.36200	.35900	.11500
	GRADIENT	.10013	-.00756	-.00686	-.00326	-.00418	.01912	.01567	.01247	-.00065

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

(RDVZ25) (OR NEW 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTN/P = 1.500
 HVB = .125 EDFLAP = .000
 ELEVON = .000

RUN NO. 25/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	Q(PSF)	PSTAT	QPTBF1	QPTBF2	QPTBF3	CFBFF1	CFBFF2	CFBFF3	HVB
.165	9.900	61.8000	2113.7000	-.33900	-.31800	-.27700	.04200	.64000	.19100	.13200
.165	14.900	62.4000	2114.5000	-.38100	-.38600	-.34300	.55100	1.44600	.76100	.03000
.165	19.900	62.9000	2115.5000	-.45800	-.38600	-.39600	1.14500	2.43900	1.64700	.02900
	GRADIENT	.12000	.16000	-.00840	-.01360	-.01320	.10180	.16120	.11400	-.00040

DATE 01 OCT 74

TABULATED SOURCE DATA - CA578

PAGE 46

CA578 (NVAL 713) B16 C5 F1 J40 W87 E18

(RDV226) (DR NOV 73)

REFERENCE DATA

SREF = 4.4120 S2.FT. XMRP = 43.5980 IN.
LREF = 19.2300 IN. YMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTV/P = 1.000
HVB = .125 ENFLAP = .000
ELEVON = .000

RUN NO. 26/ 0 RVL = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	Q(PSF)	PSTAT	QPTBF1	QPTBF2	QPTBF3	CPBF1	CPBF2	CPBF3	HVB
.165	9.900	62.30000	2113.60001	-.37600	-.29700	-.24000	.01200	.27900	.07000	.03200
.165	14.900	62.60000	2114.60001	-.33400	-.34300	-.29500	.32900	.76200	.47400	.03000
.165	20.000	62.80000	2115.89999	-.40000	-.41100	-.37700	.69700	1.24500	.55600	.02900
GRADIENT		.08000	.20000	-.00880	-.00820	-.01100	.06340	.08660	.04640	-.04440

CA578 (NVAL 713) B16 C5 F1 J40 W87 E18

(RDV227) (DR NOV 73)

REFERENCE DATA

SREF = 4.4120 S2.FT. XMRP = 43.5980 IN.
LREF = 19.2300 IN. YMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTV/P = 1.000
HVB = .125 ENFLAP = .000
ELEVON = .000

RUN NO. 27/ 0 RVL = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	Q(PSF)	PSTAT	QPTBF1	QPTBF2	QPTBF3	CPBF1	CPBF2	CPBF3	HVB
.165	9.900	62.00000	2113.20001	-.26400	-.24400	-.21400	.01200	.04600	-.00200	.03200
.165	14.900	62.10000	2113.29999	-.28500	-.26500	-.23900	.15400	.27200	.15800	.03000
.165	19.900	63.20000	2114.70001	-.32700	-.33600	-.31100	.29700	.52000	.35100	.02900
GRADIENT		.02000	.02000	-.00420	-.00420	-.00500	.02940	.04520	.03200	-.00040



DATE 01 OCT 74

TABULATED SOURCE DATA - CA578

PAGE 47

CA578 (NAAL 713) B16 C5 F1 J40 W47 E18

(RDV/29) (OR NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
UREF = 19.2300 IN. YMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

BETA = .000 FTN/P = 1.500
H/B = .125 EDFLAP = -18.000
ELEVON = 15.000

PARAMETRIC DATA

RUN NO. 28/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	Q (PSF)	PSTAT	OPTBF1	OPTBF2	OPTBF3	CPBF1	CPBF2	CPBF3	H/B
.165	-4.000	60.50000	2114.79999	-.32400	-.27000	-.26800	-.36600	-.31500	-.32400	.12800
.165	.000	61.30000	2114.50000	-.27300	-.24000	-.23100	-.33200	-.29600	-.29400	.12500
.165	4.900	61.90000	2114.29999	-.25600	-.20400	-.19500	-.30200	-.26000	-.22600	.12100
.165	9.900	62.30000	2114.60000	-.20100	-.20700	-.18400	-.27900	-.25000	-.16200	.11800
.165	14.900	62.70000	2115.10000	-.19600	-.23200	-.18900	-.27900	-.27300	-.16500	.11600
.165	19.900	63.70000	2116.39999	-.29100	-.31600	-.28200	-.33600	-.34900	-.23900	.11500
GRADIENT		.11228	.01596	.00683	.00220	.00423	.00471	.00234	.00841	-.00065

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
UREF = 19.2300 IN. YMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

BETA = .000 FTN/P = 1.500
H/B = .125 EDFLAP = -18.000
ELEVON = 15.000

PARAMETRIC DATA

RUN NO. 28/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	Q (PSF)	PSTAT	OPTBF1	OPTBF2	OPTBF3	CPBF1	CPBF2	CPBF3	H/B
.165	-4.000	60.70000	2114.79999	-.31000	-.26700	-.26000	-.35900	-.30500	-.30300	.12800
.165	.000	61.20000	2114.29999	-.26400	-.23900	-.23100	-.33800	-.29600	-.30300	.12500
.165	4.900	61.40000	2113.79999	-.22600	-.19200	-.18700	-.33500	-.27700	-.19000	.12100
.165	9.900	62.20000	2114.20000	-.19100	-.19700	-.17500	-.32500	-.25600	-.16600	.11800
.165	14.900	63.00000	2114.79999	-.21800	-.24500	-.20800	-.31500	-.26700	-.18200	.11600
.165	19.900	63.40000	2115.60000	-.30400	-.32800	-.29900	-.37300	-.37800	-.25900	.11500
GRADIENT		.11780	-.00020	.00530	.00169	.00327	.00210	-.01177	.00792	-.00065

DATE 01 OCT 74

TABULATED SOURCE DATA - CA578

PAGE 42

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

(RDVZ30) (08 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XGRP = 43.5980 IN.
LREF = 19.2300 IN. YGRP = .0000 IN.
BREF = 37.9350 IN. ZGRP = -.4050 IN.
SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTM/F = 1.000
H/B = .125 EDFLAP = -18.000
ELEVON = 15.000

RUN NO. 30/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

WAOH	ALPHA	Q(PSF)	PSTAT	QPTBF1	QPTBF2	QPTBF3	QPBFF1	QPBFF2	QPBFF3	H/B
.165	-3.900	60.6000	2113.1000	-.29100	-.24300	-.23600	-.33500	-.42000	-.24600	.12400
.165	.000	61.1000	2113.0000	-.25900	-.22400	-.21400	-.32700	-.44300	-.23500	.12500
.165	4.900	61.5000	2112.89999	-.23700	-.19800	-.19600	-.32100	-.52700	-.21800	.12100
.165	9.900	62.1000	2112.89999	-.20000	-.19300	-.17300	-.29400	-.54800	-.16900	.11800
.165	14.900	62.4000	2113.6000	-.22900	-.26000	-.21300	-.30200	-.60300	-.17600	.11600
.165	19.900	63.0000	2114.79999	-.34300	-.35200	-.31100	-.36100	-.73800	-.25700	.11500
GRADIENT		.08654	.01946	.00379	-.00017	.00176	.00204	-.00992	.00435	-.00065

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

(RDVZ31) (08 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XGRP = 43.5980 IN.
LREF = 19.2300 IN. YGRP = .0000 IN.
BREF = 37.9350 IN. ZGRP = -.4050 IN.
SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTM/F = 1.500
H/B = .039 EDFLAP = -18.000
ELEVON = 15.000

RUN NO. 31/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

WAOH	ALPHA	Q(PSF)	PSTAT	QPTBF1	QPTBF2	QPTBF3	QPBFF1	QPBFF2	QPBFF3	H/B
.165	10.000	62.1000	2119.29999	-.23700	-.21200	-.20800	-.60800	-.59000	-.34400	.03200
.165	15.000	63.3000	2119.5000	-.24100	-.23400	-.21900	-.55800	-.58400	-.41200	.03900
.165	19.900	63.1000	2119.79999	-.31900	-.31400	-.31200	-.48500	-.58800	-.51000	.02900
GRADIENT		.24000	.04000	-.00080	-.00440	-.00340	.01000	.00120	-.01360	-.00040

CA578 (NAAL 713) 816 C5 F1 J40 W87 E18

REFERENCE DATA
SGEF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
LREF = 19.2300 IN. YMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

PARAMETRIC DATA
BETA = .000 FITV/P = 1.000
H/B = .039 EDOFLAP = -18.000
ELEVON = 15.000

RUN NO. 32/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	Q(PST)	PSTAT	QPTBF1	QPTBF2	QPTBF3	CPBF1	CPBF2	CPBF3	H/B
.165	9.900	61.50000	2118.20001	-.22300	-.20500	-.19000	-.33900	-.45700	-.27000	.03200
.165	14.900	62.50000	2118.50000	-.24000	-.22900	-.20900	-.34900	-.44700	-.33800	.03000
.165	19.900	63.10000	2119.79999	-.34300	-.33800	-.32600	-.37500	-.44600	-.43000	.02900
GRADIENT		.20000	.06000	-.00340	-.00480	-.00380	-.00120	.03200	-.01360	-.00040

CA578 (NAAL 713) 816 C5 F1 J40 W87 E18 (REV233) (OR NOV 73)

REFERENCE DATA
SGEF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
LREF = 19.2300 IN. YMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

PARAMETRIC DATA
BETA = .000 FITV/P = 1.000
H/B = .039 EDOFLAP = -18.000
ELEVON = 15.000

RUN NO. 33/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	Q(PST)	PSTAT	QPTBF1	QPTBF2	QPTBF3	CPBF1	CPBF2	CPBF3	H/B
.165	10.000	62.40000	2117.50000	-.22000	-.21100	-.19900	-.38000	-.49900	-.19100	.03200
.165	14.900	62.90000	2117.60001	-.23400	-.23800	-.20700	-.31000	-.42400	-.20200	.03000
.165	20.000	62.50000	2119.00000	-.32700	-.32100	-.32200	-.36900	-.51700	-.26400	.02900
GRADIENT		-.02041	.02046	-.00286	-.00351	-.00163	.0142-	.01531	-.00224	-.00041

DATE 01 OCT 74

TABULATED SOURCE DATA - CA578

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

PAGE 50

(RDV234) (DR NEW 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. WARP = 43.5980 IN.
LREF = 19.2300 IN. YARP = .0000 IN.
BREF = 37.9350 IN. ZARP = -.4080 IN.
SCALE = .0405

BETA = .000 FTN/P = 1.500
H/B = .286 EOLAP = -18.000
ELEVON = 15.000

PARAMETRIC DATA

RUN NO. 34/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	Q(P/SF)	PSTAT	QPTBF1	QPTBF2	QPTBF3	QPBFF1	QPBFF2	QPBFF3	H/B
.165	-3.900	60.90000	2120.0000	-.29100	-.23300	-.22500	-.35300	-.24800	-.27800	.29000
.165	.000	61.10000	2119.5000	-.23900	-.21100	-.20400	-.34700	-.25100	-.27800	.28600
.165	4.900	61.50000	2118.6000	-.19900	-.18500	-.18600	-.32500	-.22400	-.25000	.28200
.165	9.900	61.90000	2118.5000	-.21800	-.18600	-.18500	-.33700	-.20900	-.21900	.27900
.165	14.900	62.30000	2118.8999	-.22800	-.23000	-.20300	-.32600	-.21600	-.22300	.27500
.165	19.900	62.80000	2119.7000	-.32700	-.34700	-.30400	-.37500	-.27100	-.28400	.27700
GRADIENT		.07602	-.06381	.00295	.00256	.00126	.00133	.00226	.00357	-.00165

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

(RDV235) (DR NEW 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. WARP = 43.5980 IN.
LREF = 19.2300 IN. YARP = .0000 IN.
BREF = 37.9350 IN. ZARP = -.4080 IN.
SCALE = .0405

BETA = .000 FTN/P = 1.500
H/B = .286 EOLAP = -18.000
ELEVON = 15.000

PARAMETRIC DATA

RUN NO. 35/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	Q(P/SF)	PSTAT	QPTBF1	QPTBF2	QPTBF3	QPBFF1	QPBFF2	QPBFF3	H/B
.165	-3.900	60.70000	2119.2000	-.26400	-.22500	-.21900	-.32500	-.23600	-.25800	.29000
.165	.000	60.70000	2118.7999	-.23900	-.21200	-.20400	-.31100	-.22500	-.25800	.28600
.165	4.900	61.30000	2118.1000	-.23500	-.19100	-.18900	-.29700	-.23600	-.23400	.28200
.165	9.900	62.90000	2119.2000	-.25200	-.21300	-.20400	-.31900	-.21600	-.22400	.27900
.165	14.900	62.20000	2118.6000	-.23600	-.24000	-.23900	-.30400	-.21900	-.20900	.27800
.165	19.900	62.80000	2119.6000	-.33100	-.35600	-.30800	-.36400	-.28200	-.27100	.27700
GRADIENT		.11004	-.01545	.00285	-.00073	.00046	.00168	.00087	.00280	-.00065



(GOV236) (OR NEW 73)

CAS78 (NAAL 713) B16 C5 F1 J40 W87 E18

REFERENCE DATA

SREF = 4.4120 S2.FT. MGRP = 43.5980 IN.
 LREF = 19.2300 IN. YGRP = .0000 IN.
 BREF = 37.9350 IN. ZGRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTV/P = 1.000
 HVB = .286 EDOFLAP = -18.000
 ELEVON = 15.000

RUN NO. 36/ 0 RAYL = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

WACH	ALPHA	Q(PSF)	PSTAT	OPTBF1	OPTBF2	OPTBF3	CPBF1	CPBF2	CPBF3	HVB
.165	-3.900	60.4000	2118.9999	-27200	-22200	-21300	-29500	-21300	-22300	.29000
.165	.000	61.0000	2118.0000	-24000	-21300	-20500	-28300	-21300	-22200	.28600
.165	5.000	61.5000	2117.9999	-24500	-19600	-18900	-28000	-19400	-20500	.28200
.165	9.900	61.7000	2117.5000	-24400	-22400	-19300	-28400	-19100	-18200	.27900
.165	15.000	62.4000	2117.7999	-23500	-23200	-21200	-28300	-20400	-18100	.27800
.165	19.900	63.1000	2118.7999	-33800	-35600	-31300	-34500	-27300	-25100	.27700
GRADIENT		.0811	-.03434	.00141	-.00029	.00025	.00025	.00119	.00261	-.00064

REFERENCE DATA

SREF = 4.4120 S2.FT. MGRP = 43.5980 IN.
 LREF = 19.2300 IN. YGRP = .0000 IN.
 BREF = 37.9350 IN. ZGRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTV/P = 1.500
 HVB = .286 EDOFLAP = -18.000
 ELEVON = -15.000

RUN NO. 37/ 0 RAYL = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

WACH	ALPHA	Q(PSF)	PSTAT	OPTBF1	OPTBF2	OPTBF3	CPBF1	CPBF2	CPBF3	HVB
.165	-3.900	60.7000	2112.9999	-14200	-15100	-14600	-21400	-27700	-26900	.04200
.165	.000	61.2000	2112.7999	-13700	-12900	-12800	-25700	-25200	-27600	.03800
.165	4.900	62.1000	2112.6000	-13900	-13200	-13200	-25600	-26600	-27400	.03400
.165	9.900	62.0000	2112.5000	-13800	-13700	-12900	-26900	-27000	-27400	.03200
.165	14.900	62.3000	2112.2000	-15700	-15700	-14100	-28900	-27900	-26400	.03000
.165	19.900	63.4000	2112.8999	-22100	-23400	-20900	-32700	-31800	-28600	.02900
GRADIENT		.08315	-.03591	-.00068	-.00049	.00014	-.00335	-.00052	.00284	-.00063

TABULATED SOURCE DATA - CA578

CA578 (MAAL 713) 816 C5 F1 J40 W87 E18 (RDV239) (04 NOV 73)

REFERENCE DATA

SREF = 4.4120 S2.FT. XGRP = 43.5980 IN.
 UREF = 19.2300 IN. YGRP = .0000 IN.
 BREF = 37.9350 IN. ZGRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTM/F = 1.000
 M/B = .286 EOLAP = -18.000
 ELEVON = -15.000

RUN NO. 38/ 0 RM/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAO4	ALPHA	J(PSF)	PSTAT	OPTBF1	OPTBF2	OPTBF3	CPBF1	CPBF2	CPBF3	M/E
.165	-3.900	60.70000	2113.20001	-.14900	-.15700	-.15100	-.21800	-.28600	-.27800	.04200
.165	.000	61.00000	2112.50000	-.13600	-.13900	-.13600	-.26000	-.27000	-.26700	.03800
.165	5.000	61.70000	2112.29999	-.14000	-.13500	-.13400	-.26800	-.27800	-.26600	.03400
.165	10.000	62.20000	2112.29999	-.14200	-.14600	-.14100	-.27500	-.27900	-.27700	.03200
.165	14.900	62.20000	2112.10001	-.16900	-.18100	-.16100	-.27800	-.27300	-.25700	.03000
.165	19.900	63.40000	2112.50000	-.22300	-.23300	-.20600	-.30000	-.31400	-.28500	.02900
GRADIENT		.08805	-.04920	-.00101	-.00125	-.00067	-.00276	.00033	.00080	-.00063

REFERENCE DATA

SREF = 4.4120 S2.FT. XGRP = 43.5980 IN.
 UREF = 19.2300 IN. YGRP = .0000 IN.
 BREF = 37.9350 IN. ZGRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTM/F = 1.000
 M/B = .286 EOLAP = -18.000
 ELEVON = -15.000

RUN NO. 38/ 0 RM/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAO4	ALPHA	J(PSF)	PSTAT	OPTBF1	OPTBF2	OPTBF3	CPBF1	CPBF2	CPBF3	M/E
.165	-3.900	60.40000	2111.89999	-.16400	-.16400	-.15100	-.20000	-.28600	-.25000	.04200
.165	.000	60.80000	2111.70001	-.14600	-.14700	-.13600	-.22000	-.25100	-.21600	.03800
.165	4.900	61.60000	2111.20001	-.14000	-.13300	-.12400	-.23400	-.25100	-.22800	.03400
.165	10.000	61.70000	2111.20001	-.14500	-.14900	-.13600	-.24500	-.25300	-.22900	.03200
.165	14.900	62.50000	2111.20001	-.17500	-.17700	-.15600	-.25100	-.25700	-.22700	.03000
.165	19.900	62.70000	2111.89999	-.23400	-.25000	-.22700	-.26800	-.23400	-.24900	.02900
GRADIENT		.10688	-.03939	-.00081	-.00166	-.00027	-.00264	.00030	.00063	-.00062



REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

RUN NO. 40/ 0 RVL = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	Q(PSF)	PSTAT	OPTBF1	OPTBF2	OPTBF3	CFBF1	CFBF2	CFBF3	HVE
.165	9.900	61.9000	2112.59999	-.25400	-.25400	-.24300	-.94800	-.03900	-.63100	.03200
.165	14.900	62.8000	2112.20001	-.26200	-.26400	-.24100	-.72500	-1.03100	-.16700	.03000
.165	19.900	63.0000	2112.60001	-.31000	-.30800	-.29200	-.53300	-.89100	-.77500	.02900
	GRADIENT	.18000	-.04000	-.00000	.00000	.00040	.04460	-.03860	-.03320	-.00040

BETA = .000 FTM/F = 1.500
 HVE = .039 EDFLAF = -18.000
 ELEVON = -15.000

PARAMETRIC DATA

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

(GOV241) (OR NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

RUN NO. 41/ 0 RVL = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	Q(PSF)	PSTAT	OPTBF1	OPTBF2	OPTBF3	CFBF1	CFBF2	CFBF3	HVE
.165	9.900	62.1000	2111.60001	-.24500	-.24300	-.22300	-.65600	-.67200	-.55500	.03200
.165	14.900	62.4000	2111.70001	-.24800	-.26500	-.23600	-.53400	-.78100	-.61800	.03000
.165	19.900	63.4000	2112.29999	-.31300	-.31900	-.30400	-.41300	-.59300	-.56200	.02900
	GRADIENT	.06000	.02004	-.00060	-.00440	-.03260	.02440	-.02180	-.01260	-.00040

BETA = .000 FTM/F = 1.300
 HVE = .039 EDFLAF = -18.000
 ELEVON = -15.000

PARAMETRIC DATA

CA578 (NAAL 713) B16 C5 F1 J40 W87 E18

(GOV242) (OR NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

RUN NO. 42/ 0 RVL = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	Q(PSF)	PSTAT	OPTBF1	OPTBF2	OPTBF3	CFBF1	CFBF2	CFBF3	HVE
.165	9.900	62.5000	2110.89999	-.22700	-.22400	-.20300	-.44800	-.45800	-.41000	.03200
.165	14.900	62.4000	2110.89999	-.25000	-.27100	-.24000	-.39700	-.45000	-.43400	.03000
.165	19.900	62.7000	2111.10001	-.26400	-.31500	-.28300	-.28300	-.35300	-.37200	.02900
	GRADIENT	.02000	.00000	-.00490	-.00840	-.00040	.01120	-.00640	-.00040	-.00040

BETA = .000 FTM/F = 1.000
 HVE = .039 EDFLAF = -18.000
 ELEVON = -15.000

PARAMETRIC DATA

CA578 (MAY 713) B16 C5 F1 J40 W47 E18

REFERENCE DATA

SREF = 4.4120 SQ.FT.

WREF = 19.2300 IN.

BREF = 37.9350 IN.

SCALE = .0405

WREF = 43.5980 IN.

WREF = .0000 IN.

WREF = -.4080 IN.

BETA = .000

W/B = .125

ELEVON = -15.000

WREF = 1.500

WREF = -18.000

PARAMETRIC DATA

RUN NO. 43/ 0 RWL = 1.20 GRADIENT INTERVAL = -4.00/ 16.0

WACH	ALPHA	3(PSF)	PSTAT	OPTBF1	OPTBF2	OPTBF3	CPREF1	CPREF2	CPREF3	W/B
.165	-3.900	60.5000	2112.2000	-.24200	-.24000	-.23600	-.30800	-.30700	-.34100	.12800
.165	.000	60.5000	2111.29999	-.19900	-.20500	-.19400	-.28300	-.29300	-.32700	.12500
.165	4.900	61.7000	2110.7000	-.17700	-.17000	-.17200	-.30600	-.30900	-.32300	.12100
.165	9.900	62.5000	2111.2000	-.17100	-.16900	-.16800	-.32900	-.32800	-.32900	.11900
.165	14.900	62.8000	2111.79999	-.18300	-.19900	-.17900	-.32400	-.33000	-.31300	.11600
.165	20.000	63.2000	2111.6000	-.23700	-.26700	-.24600	-.35100	-.34000	-.33500	.11500
	GRADIENT	.13962	-.01593	.00297	.00238	.00285	-.00170	-.00175	.00124	-.00065

CA578 (MAY 713) B16 C5 F1 J40 W47 E18

(REV 244) (08 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT.

WREF = 19.2300 IN.

BREF = 37.9350 IN.

SCALE = .0405

WREF = 43.5980 IN.

WREF = .0000 IN.

WREF = -.4080 IN.

BETA = .000

W/B = .125

ELEVON = -15.000

WREF = 1.500

WREF = -18.000

PARAMETRIC DATA

RUN NO. 44/ 0 RWL = 1.20 GRADIENT INTERVAL = -4.00/ 16.0

WACH	ALPHA	3(PSF)	PSTAT	OPTBF1	OPTBF2	OPTBF3	CPREF1	CPREF2	CPREF3	W/B
.165	-4.000	60.9000	2111.6000	-.23000	-.23000	-.22800	-.28600	-.29300	-.31200	.12800
.165	.000	60.8000	2111.2000	-.19800	-.19500	-.19200	-.27100	-.29200	-.31900	.12500
.165	4.900	61.1000	2111.0000	-.17100	-.17900	-.17400	-.30400	-.31600	-.32400	.12100
.165	9.900	62.5000	2111.39999	-.17900	-.18600	-.17800	-.33200	-.33700	-.33100	.11900
.165	14.900	62.8000	2111.1000	-.18300	-.20200	-.18800	-.33100	-.32800	-.29400	.11600
.165	19.900	63.4000	2111.79999	-.28300	-.28500	-.28700	-.33900	-.35100	-.32400	.11500
	GRADIENT	.11264	-.01593	.00216	.00127	.00157	-.00321	-.00233	.00135	-.00065

CAS78 (NVAL 713) B16 C5 F1 J40 W87 E18 (REV245) (UN NCV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XREF = 43.5980 IN. BETA = .000 FTM = 1.000
URF = 19.2300 IN. YREF = .0000 IN. MVB = .125 LDFLAF = -18.000
BRF = 37.9350 IN. ZREF = -.4050 IN. ELEVON = -15.000
SCALE = .0005

PAGAMETRIC DATA

RUN NC. 45/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	3(PSF)	FSTAT	OPTBF1	OPTBF2	OPTBF3	CFBF1	CFBF2	CFBF3	MVB
.165	-4.000	60.80000	2114.0000	-.23400	-.23800	-.23100	-.26600	-.28300	-.28100	.12400
.165	.000	61.10000	2115.39999	-.09700	-.20100	-.19900	-.19300	-.25000	-.24100	.12500
.165	4.900	61.70000	2116.10001	-.17000	-.17200	-.16500	-.29300	-.29700	-.24500	.12100
.165	9.900	61.50000	2116.20001	-.17900	-.16800	-.17900	-.34600	-.34800	-.29300	.11800
.165	14.900	62.50000	2116.70001	-.19600	-.21700	-.19300	-.24600	-.34300	-.24100	.11400
.165	19.900	63.00000	2116.79999	-.26900	-.25700	-.29100	-.25700	-.28300	-.28900	.11500
GRADIENT		.07970	-.01507	-.00476	.01104	.01192	-.00338	-.00187	-.00025	-.00065

REFERENCE DATA

SREF = 4.4120 SQ.FT. XREF = 43.5980 IN. BETA = .000 FTM = 1.000
URF = 19.2300 IN. YREF = .0000 IN. MVB = .125 LDFLAF = -18.000
BRF = 37.9350 IN. ZREF = -.4050 IN. ELEVON = 15.000
SCALE = .0005

PAGAMETRIC DATA

RUN NC. 46/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	3(PSF)	FSTAT	OPTBF1	OPTBF2	OPTBF3	CFBF1	CFBF2	CFBF3	MVB
.165	-4.000	60.50000	2114.70001	-.25900	-.25000	-.24400	-.31700	-.28300	-.34000	.12400
.165	.000	60.50000	2114.29999	-.24300	-.21900	-.23800	-.31900	-.26500	-.27500	.12500
.165	4.900	61.10000	2114.10001	-.20700	-.16900	-.16800	-.24100	-.23000	-.22200	.12100
.165	9.900	61.90000	2114.39999	-.19000	-.18100	-.17900	-.21400	-.24400	-.31400	.11700
.165	14.900	62.70000	2115.00000	-.23500	-.22900	-.23400	-.20900	-.21900	-.15400	.11600
.165	19.900	63.00000	2116.00000	-.30700	-.31100	-.24200	-.26700	-.27900	-.21400	.11500
GRADIENT		.12281	.01823	.00193	.00154	.00205	.00674	.00393	.00333	-.00065

DATE 01 OCT 74

NOV 73

CAS 78 (MAY 71) B16 CS F1 J41 M87 E18

TABULATED SOURCE DATA - CAS 78

REFERENCE DATA

SREF = 4.4120 SQ.FT. 1MGP = 43.5980 IN.
 UREF = 19.2300 IN. 1MGP = .0000 IN.
 BREF = 37.9350 IN. 2MGP = -.4050 IN.
 SCALE = .0005

BETA = .000 FTM/F = 1.000
 MVB = .125 EOFFAF = -18.000
 ELEVON = 15.000

PARAMETRIC DATA

RUN NO. 47/0 RSVL = 1.20 GRADIENT INTERVAL = -4.00/16.00

NOCH	ALPHA	J(PSF)	FSTAT	OPTBF1	OPTBF2	OPTBF3	CPBF1	CPBF2	CPBF3	MVB
.165	-4.000	60.7000	2113.79999	-2.000	-2.000	-2.2200	-3.2600	-2.2000	-2.2000	.12500
.165	.000	60.7000	2113.79999	-2.000	-2.000	-2.2200	-3.2600	-2.2000	-2.2000	.12500
.165	4.900	61.4000	2113.79999	-2.1600	-2.2000	-1.9500	-2.6600	-1.2200	-1.2200	.11600
.165	9.900	61.9000	2113.50000	-2.2200	-2.2800	-1.8600	-2.1700	-1.1950	-1.1950	.11600
.165	14.900	62.4000	2114.20000	-2.4500	-2.4700	-2.2600	-2.1600	-1.2600	-1.2600	.11500
.165	19.900	62.9000	2115.00000	-3.1600	-3.2900	-3.0000	-2.6000	-1.2700	-1.2700	.11500
	GRADIENT	.00006	.02267	.00151	.00012	.00047	.00676	.00033	.00033	.00065

CAS 78 (MAY 71) B16 CS F1 J41 M87 E18

NOV 73

REFERENCE DATA

SREF = 4.4120 SQ.FT. 1MGP = 43.5980 IN.
 UREF = 19.2300 IN. 1MGP = .0000 IN.
 BREF = 37.9350 IN. 2MGP = -.4050 IN.
 SCALE = .0005

BETA = .000 FTM/F = 1.000
 MVB = .039 EOFFAF = -18.000
 ELEVON = 15.000

PARAMETRIC DATA

RUN NO. 48/0 RSVL = 1.20 GRADIENT INTERVAL = -4.00/16.00

NOCH	ALPHA	J(PSF)	FSTAT	OPTBF1	OPTBF2	OPTBF3	CPBF1	CPBF2	CPBF3	MVB
.165	.000	64.5000	2116.20000	-1.1900	-1.1850	-1.1820	-3.4900	-3.7600	-2.7500	.03800
.165	4.900	64.7000	2116.60000	-1.2200	-1.2400	-1.2270	-3.4000	-4.7300	-3.4500	.03400
.165	9.900	65.1000	2117.89999	-1.3240	-1.3330	-1.3420	-3.3900	-4.9900	-4.4300	.03200
	GRADIENT	.00067	.17202	-.01326	-.01496	-.01618	-.00406	-.01240	-.01698	.00061

DATE 01 OCT 74

TABULATED SOURCE DATA - CA57B

PAGE 57

CA57B (NAAL 713) B16 C5 F1 J41 W87 E18 (RDV249) (04 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/F = 1.000
 W/B = .039 BDFLAF = -18.000
 ELEVON = 15.000

RUN NO. 49/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	Q (PSF)	PSTAT	QTFB1	QTFB2	QTFB3	QF8BF1	QF8BF2	QF8BF3	W/B
.165	.000	64.60000	2115.29999	-.21200	-.20400	-.19100	-.17600	-.23100	-.18700	.03400
.165	4.900	65.20000	2115.70001	-.22800	-.23200	-.21500	-.19100	-.26400	-.20600	.03400
.165	9.900	65.10000	2116.89999	-.29500	-.30500	-.30500	-.27700	-.30900	-.24800	.03200
	GRADIENT	.08027	.16188	-.00840	-.01022	-.01154	-.01023	-.00788	-.01093	-.00461

CA57B (NAAL 713) B16 C5 F1 J41 W87 E18 (RDV250) (04 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/F = 1.300
 W/B = .246 BDFLAF = 18.000
 ELEVON = 15.000

RUN NO. 50/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	Q (PSF)	PSTAT	QTFB1	QTFB2	QTFB3	QF8BF1	QF8BF2	QF8BF3	W/B
.165	-.000	61.80000	2113.89999	-.29500	-.23900	-.23900	-.31200	-.26700	-.26900	.29000
.165	.000	61.00000	2113.39999	-.24500	-.19800	-.20300	-.26800	-.24800	-.25900	.28600
.165	4.900	61.50000	2112.00000	-.24000	-.19600	-.19000	-.27100	-.23700	-.24000	.28200
.165	9.900	62.10000	2112.00000	-.23700	-.19800	-.18400	-.27800	-.23400	-.21500	.27900
.165	14.900	62.20000	2112.29999	-.25700	-.23000	-.21600	-.30200	-.24500	-.20600	.27800
.165	19.900	62.60000	2113.20001	-.32200	-.33500	-.29900	-.31800	-.32100	-.27000	.27000
	GRADIENT	.04175	-.07236	.00165	.00027	.00127	.00010	.00117	.00057	-.00064

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

RUN NO. 51/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	Q (PSF)	PSTAT	OPTBF1	OPTBF2	OPTBF3	CPBEF1	CPBEF2	CPBEF3	H/B
.165	-4.000	60.90000	2112.20001	-1.26600	-.22500	-.22400	-.25700	-.24200	-.22900	.29000
.165	.000	60.70000	2111.29999	-.22800	-.22400	-.19800	-.27500	-.22600	-.22200	.28600
.165	4.900	61.30000	2111.00000	-.23000	-.19600	-.19300	-.28500	-.21400	-.20700	.28200
.165	9.900	61.70000	2111.20001	-.23700	-.23600	-.19300	-.24300	-.20700	-.18300	.27900
.165	14.900	62.20000	2111.60001	-.25900	-.23600	-.21900	-.21900	-.21900	-.17700	.27800
.165	19.900	62.90000	2112.50000	-.32700	-.34100	-.30000	-.31700	-.29000	-.24600	.27700
GRADIENT		.07646	-.02502	.00001	-.00002	.00024	.00013	.00133	.00301	-.00064

PARAMETRIC DATA

BETA = .000 FTM/F = 1.000
 H/B = .286 BDFLAP = -18.000
 ELEVON = 15.000

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

RUN NO. 52/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	Q (PSF)	PSTAT	OPTBF1	OPTBF2	OPTBF3	CPBEF1	CPBEF2	CPBEF3	H/B
.165	-4.000	60.30000	2110.70001	-.22100	.19500	-.19200	-.19400	-.23500	-.22800	.29000
.165	.000	60.90000	2110.20001	-.19000	-.17700	-.17900	-.20200	-.23000	-.22400	.28600
.165	4.900	61.10000	2109.70001	-.18500	-.16700	-.16900	-.21600	-.22600	-.21700	.28200
.165	9.900	61.80000	2110.10001	-.18900	-.17900	-.17500	-.22400	-.23300	-.21400	.27900
.165	14.900	62.50000	2110.39999	-.21200	-.20100	-.19400	-.23500	-.20200	-.22000	.27800
.165	19.900	63.00000	2110.60001	-.27600	-.26100	-.25600	-.27400	-.24900	-.26100	.27700
GRADIENT		.11116	-.01306	.00032	-.00006	-.00005	-.00218	-.00001	.00053	-.00064

PARAMETRIC DATA

BETA = .000 FTM/F = 1.000
 H/B = .286 BDFLAP = -18.000
 ELEVON = .000



DATE 01 OCT 74

TABULATED SOURCE DATA - CA57B

CA57B (NAAL 713) B16 C5 F1 J41 W47 E18

(RDV253) (08 NOV 73)

PAGE 59

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

RUN NO. 53/ 0 RNVL = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	Q (PSF)	FSTAT	QPTBF1	QPTBF2	QPTBF3	CFBFF1	CFBFF2	CFBFF3	H/B
.165	-3.900	60.40000	2109.89999	-.22300	-.19800	-.19300	-.20600	-.22900	-.19700	.29300
.165	.000	61.10000	2109.39999	-.19300	-.18600	-.18300	-.20400	-.22300	-.19400	.28600
.165	4.900	61.70000	2109.29999	-.19200	-.17900	-.17100	-.19900	-.22400	-.20000	.28200
.165	9.900	62.40000	2109.29999	-.19700	-.19000	-.17700	-.21100	-.22400	-.19200	.27900
.165	14.900	62.20000	2109.29999	-.21300	-.20400	-.19500	-.22100	-.22500	-.17900	.27800
.165	19.900	62.90000	2110.20001	-.28400	-.27600	-.27100	-.26300	-.26600	-.22200	.27700
GRADIENT		.10199	-.02632	.03126	-.00039	-.00000	-.00080	.00013	.00081	-.00065

PARAMETRIC DATA

BETA = .000 FINVP = 1.000
 H/B = .286 BOFLAP = -18.000
 ELEVON = .000

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

RUN NO. 54/ 0 RNVL = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	Q (PSF)	FSTAT	QPTBF1	QPTBF2	QPTBF3	CFBFF1	CFBFF2	CFBFF3	H/B
.165	9.900	61.90000	2109.00000	-.21100	-.19800	-.19800	-.35400	-.46100	-.36700	.03200
.165	15.000	62.40000	2109.29999	-.22300	-.21600	-.20400	-.37500	-.54500	-.41900	.03000
.165	19.900	62.20000	2110.20001	-.33000	-.30300	-.30400	-.30000	-.48800	-.44100	.02900
GRADIENT		.09804	.05803	-.00235	-.00333	-.00118	-.00412	-.01647	-.01020	-.00039

PARAMETRIC DATA

BETA = .000 FINVP = 1.300
 H/B = .039 BOFLAP = -18.000
 ELEVON = .000

CA57B (NAAL 713) B16 C5 F1 J41 W47 E18

(RDV254) (08 NOV 73)

CA578 (NAAL 713) B16 C5 F1 J41 W87 E18 (RDV255) (U8 NOV 73)

REFERENCE DATA

SREF = .4120 SQ.FT. XMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

FACAMETRIC DATA

BETA = .000 FTN/P = 1.000
 H/B = .039 EDFLAF = -14.000
 ELEVON = .000

RUN NO. 55/ U FV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	Q (PSF)	FSTAT	QPTBF1	QPTBF2	QPTBF3	QPBFF1	QPBFF2	QPBFF3	H/B
.165	9.900	62.3000	2109.1000	-.21500	-.19800	-.19500	-.37000	-.46800	-.37300	.03200
.165	14.900	63.1000	2109.5000	-.22200	-.21500	-.20700	-.36700	-.53700	-.42700	.03000
.165	19.900	63.2000	2110.7000	-.32900	-.30400	-.31700	-.30500	-.48300	-.44900	.02900
	GRADIENT	16000	.08304	-.00140	-.00340	-.00240	.00060	-.01380	-.01040	-.00040

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

FACAMETRIC DATA

BETA = .000 FTN/P = 1.000
 H/B = .039 EDFLAF = -18.000
 ELEVON = .000

RUN NO. 56/ U FV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	Q (PSF)	FSTAT	QPTBF1	QPTBF2	QPTBF3	QPBFF1	QPBFF2	QPBFF3	H/B
.165	10.000	61.9000	2108.1000	-.21600	-.20100	-.18600	-.29300	-.33100	-.28800	.03200
.165	15.000	62.2000	2108.89999	-.23400	-.21500	-.20300	-.23600	-.32200	-.29000	.03000
.165	20.000	62.8000	2109.39999	-.29700	-.28800	-.29900	-.21000	-.30900	-.31800	.02900
	GRADIENT	08000	.15996	-.00360	-.00280	-.00340	.01140	.00180	-.00040	-.00040



LATE 01 OCT 74

TABULATED SOURCE DATA - CA578

PAGE 61

CA578 (NAAL 713) B16 C5 F1 J41 W87 E18

(RDV257) (DR NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -4.0500 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 FINVP = 1.000
 HVB = .125 EDFLAP = -18.000
 ELEVON = .000

RUN NO. 57/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	Q(PSF)	PSTAT	QPTBF1	QPTBF2	QPTBF3	QPBFF1	QPBFF2	QPBFF3	HVB
.165	-3.900	60.50000	2107.29999	-26900	-25100	-24400	-27100	-27900	-29300	.12800
.165	.000	61.00000	2106.39999	-22900	-22200	-21300	-24700	-25100	-26300	.12500
.165	4.900	61.80000	2106.60001	-21200	-19500	-18900	-23700	-23700	-25900	.12100
.165	9.900	62.20000	2106.50000	-20800	-19000	-18200	-23800	-23800	-26100	.11800
.165	15.000	62.90000	2106.70001	-21000	-19400	-19000	-23900	-23900	-25900	.11600
.165	19.900	63.20000	2107.50000	-23200	-27800	-28100	-28300	-30200	-25800	.11500
	GRADIENT	.09543	-.02109	.00289	.00299	.00284	.00147	.00055	.00430	-.00065

CA578 (NAAL 713) B16 C5 F1 J41 W87 E18

(RDV258) (DR NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -4.0500 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 FINVP = 1.000
 HVB = .125 EDFLAP = -18.000
 ELEVON = .000

RUN NO. 58/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	Q(PSF)	PSTAT	QPTBF1	QPTBF2	QPTBF3	QPBFF1	QPBFF2	QPBFF3	HVB
.165	-3.900	60.50000	2105.70001	-24600	-23600	-22400	-26700	-26700	-23600	.12800
.165	.000	60.60000	2105.39999	-22400	-21700	-20400	-25400	-25400	-23600	.12700
.165	4.900	61.10000	2105.10001	-20600	-19600	-18500	-24800	-25600	-22700	.12100
.165	10.000	61.90000	2105.39999	-20300	-19100	-18200	-24500	-23800	-21700	.11800
.165	15.000	62.90000	2105.89999	-21100	-19900	-19200	-22400	-23400	-21600	.11600
.165	19.900	62.70000	2106.50000	-23600	-28200	-27600	-28200	-26300	-21200	.11500
	GRADIENT	.13693	.00987	.00174	.00204	.00174	.00198	.00171	.00340	-.00065

REFERENCE DATA
 SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

BETA = .000 FTM/P = 1.500
 H/B = .125 EDFLAF = -19.000
 ELEVON = .000

RUN NO. 59/ 0 RVL = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	Q(PSF)	PSTAT	QPTBF1	QPTBF2	QPTBF3	CPBF1	CPBF2	CPBF3	H/B
.165	-4.000	61.10000	2112.50000	-.21200	-.21600	-.20100	-.27100	-.25400	-.23800	.12800
.165	.000	61.10000	2111.89999	-.19300	-.18900	-.17600	-.28100	-.25400	-.23200	.12500
.165	4.900	61.90000	2111.89999	-.18300	-.17500	-.17100	-.29300	-.26500	-.23800	.12100
.165	9.900	61.40000	2110.89999	-.16000	-.15900	-.14300	-.29500	-.24200	-.18600	.11800
.165	14.900	62.50000	2111.39999	-.15000	-.15300	-.13800	-.27700	-.24100	-.20000	.11600
.165	19.900	63.10000	2112.20001	-.15100	-.15500	-.14100	-.32100	-.24700	-.21100	.11500
GRADIENT		.06537	-.06635	.00328	.00324	.00331	-.00061	.00042	.00253	-.00065

REFERENCE DATA
 SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 UREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

BETA = .000 FTM/P = 1.500
 H/B = .125 EDFLAF = -19.000
 ELEVON = .000

RUN NO. 60/ 0 RVL = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	Q(PSF)	PSTAT	QPTBF1	QPTBF2	QPTBF3	CPBF1	CPBF2	CPBF3	H/B
.165	-4.000	60.70000	2111.50000	-.20300	-.20600	-.19400	-.28600	-.26500	-.25300	.12800
.165	.000	60.60000	2111.29999	-.19600	-.18900	-.17700	-.28200	-.26100	-.23000	.12500
.165	4.900	61.50000	2111.20001	-.16700	-.16600	-.16200	-.33000	-.27600	-.24400	.12100
.165	9.900	61.80000	2111.20001	-.16500	-.17400	-.15800	-.30300	-.26600	-.20900	.11800
.165	14.900	62.50000	2111.70001	-.17400	-.17100	-.15700	-.14300	-.29100	-.22800	.11600
.165	19.900	63.50000	2112.20001	-.19500	-.19800	-.18600	-.30800	-.31600	-.24500	.11500
GRADIENT		.10146	.00713	.00161	.00174	.00192	-.00294	-.00121	.00146	-.00065



DATE 01 OCT 74 TABULATED SOURCE DATA - CA57B

(REVZ61) (03 NOV 73)

CA57B (NAAL 713) B16 C5 F1 J42 W47 E18

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTM/P = 1.000
 M/B = .125 EDFLAF = -18.000
 ELEV.N = .000

RUN NO. 61/ 0 R/V/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	Q(PSF)	PSTAT	CPTBF1	CPTBF2	CPTBF3	CPBFF1	CPBFF2	CPBFF3	M/B
.165	-4.000	60.30000	2110.60001	-.20000	-.19100	-.19800	-.26400	-.26100	-.21900	.12800
.165	.000	60.90000	2110.50000	-.19000	-.19500	-.19300	-.28900	-.26400	-.22700	.12500
.165	4.900	61.40000	2110.10001	-.16600	-.17800	-.18600	-.29500	-.27400	-.22500	.12100
.165	9.400	62.30000	2110.60001	-.18400	-.18900	-.18200	-.31300	-.26900	-.21900	.11800
.165	14.900	62.70000	2111.10001	-.19400	-.19800	-.18400	-.33900	-.27900	-.22000	.11600
.165	19.900	62.80000	2111.79999	-.26100	-.27100	-.25500	-.42900	-.33800	-.26500	.11500
	GRADIENT	.12985	.02419	.00033	-.00018	.00081	-.02566	-.00086	.00019	-.00065

(REVZ62) (03 NOV 73)

CA57B (NAAL 713) B16 C5 F1 J42 W47 E18

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTM/P = 1.000
 M/B = .039 EDFLAF = -18.000
 ELEV.N = .000

RUN NO. 62/ 0 R/V/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MACH	ALPHA	Q(PSF)	PSTAT	CPTBF1	CPTBF2	CPTBF3	CPBFF1	CPBFF2	CPBFF3	M/B
.165	9.900	62.10000	2111.50000	-.18700	-.19400	-.18000	-.68700	-.53000	-.36000	.03200
.165	14.900	62.40000	2111.20001	-.27500	-.52800	-.13200	-.13800	-.13100	-.16900	.03000
.165	19.900	63.50000	2112.00000	-.13500	-.13600	-.15200	-.38100	-.75900	-.48100	.02900
	GRADIENT	.06000	-.06000	-.01760	-.06680	.00860	.10980	.07980	-.06660	-.00040

(NOV263) (08 NOV 73)

CA57B (NAAL 713) B16 C5 F1 J42 W87 E18

REFERENCE DATA

SREF = 4.4120 SQ.FT. XREF = 43.5980 IN.
 UREF = 19.2300 IN. YREF = .0000 IN.
 BREF = 37.9350 IN. ZREF = -.4050 IN.
 SCALE = .0005

PARAMETRIC DATA

BETA = .000
 HVB = .039
 ELEVON = .000

RUN NO. 63/ U RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAO1	ALPHA	Q(PSE)	PSTAT	QTFB1	QTFB2	QTFB3	QTFB1	QTFB2	QTFB3	HVL
.165	9.900	62.2000	2111.10001	-.18000	-.19200	-.17800	-.53600	-.49100	-.35700	.03200
.165	14.900	62.8000	2111.39999	-.16700	-.17600	-.17200	-.46900	-.50500	-.41700	.03300
.165	19.900	63.4000	2112.89999	-.19100	-.20400	-.20300	-.39400	-.51100	-.40100	.03400
	GRADIENT	.1200	.06000	.00260	.00320	.00120	.01340	-.01480	-.01160	-.00420

(NOV264) (08 NOV 73)

CA57B (NAAL 713) B16 C5 F1 J42 W87 E18

REFERENCE DATA

SREF = 4.4120 SQ.FT. XREF = 43.5980 IN.
 UREF = 19.2300 IN. YREF = .0000 IN.
 BREF = 37.9350 IN. ZREF = -.4050 IN.
 SCALE = .0005

PARAMETRIC DATA

BETA = .000
 HVB = .039
 ELEVON = .000

RUN NO. 64/ U RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAO1	ALPHA	Q(PSE)	PSTAT	QTFB1	QTFB2	QTFB3	QTFB1	QTFB2	QTFB3	HVL
.165	9.900	61.7000	2110.20001	-.18700	-.19200	-.17900	-.41100	-.34000	-.26200	.03200
.165	15.000	62.6000	2110.79999	-.18400	-.20100	-.19600	-.35000	-.37200	-.25700	.03300
.165	19.900	62.9000	2112.20001	-.28800	-.29400	-.30200	-.35100	-.41400	-.35400	.03400
	GRADIENT	.17647	.11767	-.00020	-.00176	-.00333	.01196	-.00627	-.00806	-.00439



CA578 (NAAL 713) B16 C5 F1 J42 W87 E18

(DDVZ65) (DR NEW 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
UREF = 19.2300 IN. YMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4000 IN.
SCALE = .0405

BETA = .000 FTM/F = 1.500
HVB = .125 WFLAF = -14.000
ELEVON = .000

PARAMETRIC DATA

RUN NO. 65/ U RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	Q(PSF)	PSTAT	QPTBF1	QPTBF2	QPTBF3	QPBDF1	QPBDF2	QPBDF3	HVB
.165	-3.900	60.6000	2116.7000	-.2000	-.1900	-.1940	-.2990	-.2480	-.2510	.1250
.165	.000	61.3000	2116.5000	-.1960	-.1950	-.1960	-.3100	-.2540	-.2390	.1250
.165	4.900	62.1000	2116.2999	-.1790	-.1640	-.1630	-.2940	-.2520	-.2410	.1210
.165	9.900	62.1000	2115.8999	-.1560	-.1490	-.1400	-.3140	-.2320	-.1990	.1150
.165	14.900	62.4000	2115.8999	-.1390	-.1500	-.1400	-.2990	-.2360	-.2010	.1160
.165	19.900	63.0000	2116.7000	-.1500	-.1580	-.1510	-.3360	-.2450	-.2140	.1150
	GRADIENT	.08128	-.04621	.00355	.00299	.00347	-.00003	.00099	.00296	-.00065

CA578 (NAAL 713) B16 C5 F1 J42 W87 E18

(DDVZ66) (DR NEW 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5980 IN.
UREF = 19.2300 IN. YMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4000 IN.
SCALE = .0405

BETA = .000 FTM/F = 1.500
HVB = .125 WFLAF = -14.000
ELEVON = .000

PARAMETRIC DATA

RUN NO. 66/ U RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	Q(PSF)	PSTAT	QPTBF1	QPTBF2	QPTBF3	QPBDF1	QPBDF2	QPBDF3	HVB
.165	-4.000	61.1000	2116.3999	-.2000	-.1900	-.1940	-.2990	-.2620	-.2640	.1250
.165	.000	60.7000	2116.2000	-.1940	-.1890	-.1870	-.2910	-.2630	-.2550	.1250
.165	4.900	61.2000	2116.0000	-.1680	-.1630	-.1680	-.3080	-.2670	-.2460	.1210
.165	9.900	61.9000	2115.8999	-.1630	-.1690	-.1510	-.3200	-.2610	-.2340	.1150
.165	14.900	62.5000	2115.8999	-.1630	-.1690	-.1560	-.3040	-.2690	-.2070	.1160
.165	19.900	63.5000	2116.8999	-.1870	-.1940	-.1840	-.4010	-.3040	-.2400	.1150
	GRADIENT	.08557	-.02692	.00231	.00148	.00250	-.00096	-.00025	.00337	-.00065

CA578 (NAAL 713) B16 C5 F1 J42 W87 E18

(CONV 267) (04 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XREF = 43.5980 IN.
 UREF = 19.2300 IN. YREF = .0000 IN.
 BREF = 37.9350 IN. ZREF = -.4050 IN.
 SCALE = .0405

BETA = .000 FTM/F = 1.000
 W/B = .120 UDFLAF = -18.000
 ELEVON = .000

RUN NO. 67/ 0 RM/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	Q(PSF)	PSTAT	OPTBF1	OPTBF2	OPTBF3	CFBDF1	CFBDF2	CFBDF3	W/B
.165	-4.000	60.3000	2115.5000	-1.1900	-.20400	-.19500	-.28200	-.26500	-.23500	.12300
.165	.000	61.0000	2115.6000	-.23600	-.18900	-.19700	-.28000	-.27400	-.23500	.12500
.165	4.900	61.1000	2115.29999	-.17900	-.17100	-.18000	-.30200	-.27100	-.23400	.12100
.165	9.900	61.8000	2115.29999	-.17400	-.18300	-.16900	-.31300	-.25500	-.19500	.11800
.165	14.900	63.1000	2115.79999	-.18600	-.20000	-.19300	-.32600	-.27300	-.20800	.11600
.165	19.900	63.0000	2116.29999	-.25100	-.26000	-.24400	-.41300	-.31400	-.23800	.11500
	GRADIENT	.13459	.00663	.00111	.00024	.00064	-.00256	.00004	.00499	-.00445

REFERENCE DATA

SREF = 4.4120 SQ.FT. XREF = 43.5980 IN.
 UREF = 19.2300 IN. YREF = .0000 IN.
 BREF = 37.9350 IN. ZREF = -.4050 IN.
 SCALE = .0405

BETA = .000 FTM/F = 1.500
 W/B = .286 UDFLAF = -18.000
 ELEVON = .000

CA578 (NAAL 713) B16 C5 F1 J42 W87 E18

(CONV 264) (04 NOV 73)

PARAMETRIC DATA

RUN NO. 68/ 0 RM/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	Q(PSF)	PSTAT	OPTBF1	OPTBF2	OPTBF3	CFBDF1	CFBDF2	CFBDF3	W/B
.165	-3.900	60.2000	2117.70001	-.17000	-.15800	-.16200	-.28100	-.23600	-.24200	.29000
.165	.000	61.7000	2117.70001	-.16300	-.15500	-.16300	-.27600	-.24100	-.23600	.28600
.165	4.900	61.8000	2117.10001	-.15400	-.14200	-.14200	-.27800	-.24000	-.22200	.28000
.165	9.900	61.7000	2116.39999	-.13900	-.13200	-.12300	-.27700	-.21900	-.19200	.27900
.165	15.000	63.1000	2117.10001	-.15900	-.15800	-.15100	-.31700	-.23900	-.21000	.27400
.165	19.900	62.9000	2117.10001	-.16100	-.17200	-.16200	-.36400	-.25500	-.23600	.27700
	GRADIENT	.11948	-.05200	.00086	.00045	.00128	-.00158	.00047	.00246	-.00464



REFERENCE DATA
SREF = 4.4120 SQ.FT. XREF = 43.5980 IN.
UREF = 19.2300 IN. YREF = .0000 IN.
BREF = 37.9350 IN. ZREF = -4.0500 IN.
SCALE = .0005
BETA = .000 FIT/F = 1.000
W/B = .246 DEFLAF = -14.000
ELEVON = .000

PARAMETRIC DATA
RUN NO. 69/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	Q(PSF)	FSTAT	QTFB1	QTFB2	QTFB3	QFDF1	QFDF2	QFDF3	W/L
.165	-3.000	60.50000	2117.10001	-1.6900	-1.6200	-1.6700	-1.2600	-1.24700	-1.23400	.23900
.165	.000	60.70000	2116.79999	-1.1500	-1.1500	-1.15600	-1.26400	-1.24300	-1.23100	.24600
.165	5.000	61.40000	2116.50000	-1.1500	-1.14200	-1.14900	-1.24400	-1.25200	-1.21400	.27200
.165	10.000	61.70000	2115.50000	-1.1400	-1.15000	-1.14000	-1.29500	-1.24900	-1.21300	.27900
.165	14.900	63.00000	2116.70001	-1.1600	-1.17500	-1.16000	-1.33700	-1.26000	-1.21000	.27400
.165	19.900	63.00000	2117.10001	-1.1400	-1.15900	-1.18100	-1.37800	-1.29500	-1.24100	.27700
GRADIENT		.13483	-.02237	.00064	-.00067	.00035	-.00368	-.00043	.00148	-.00041

REFERENCE DATA
SREF = 4.4120 SQ.FT. XREF = 43.5980 IN.
UREF = 19.2300 IN. YREF = .0000 IN.
BREF = 37.9350 IN. ZREF = -4.0500 IN.
SCALE = .0005
BETA = .000 FIT/F = 1.000
W/B = .246 DEFLAF = -14.000
ELEVON = .000

PARAMETRIC DATA
RUN NO. 70/ 0 RV/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

MAOH	ALPHA	Q(PSF)	FSTAT	QTFB1	QTFB2	QTFB3	QFDF1	QFDF2	QFDF3	W/L
.165	-4.000	60.50000	2116.29999	-1.1700	-1.16000	-1.17400	-1.25800	-1.24600	-1.20900	.23400
.165	.000	61.00000	2115.89999	-1.1500	-1.15700	-1.15600	-1.25000	-1.24200	-1.19600	.24400
.165	4.900	61.30000	2115.70001	-1.1500	-1.16500	-1.15900	-1.24000	-1.24000	-1.20300	.24200
.165	9.900	61.70000	2115.50000	-1.1600	-1.16500	-1.15000	-1.27300	-1.24100	-1.19700	.27900
.165	14.900	62.20000	2115.70001	-1.17200	-1.18200	-1.17800	-1.32600	-1.24700	-1.19400	.27700
.165	19.900	63.10000	2116.39999	-.17200	-.23400	-.22300	-.34900	-.29400	-.23500	.27700
GRADIENT		.04574	-.003274	-.00012	-.00047	.00009	-.00369	-.00003	.00076	-.00044

REFERENCE DATA

SREF = 4.4120 SQ.FT. 3MGP = 43.5980 IN.
LREF = 19.2300 IN. 1MGP = .0000 IN.
BREF = 37.9350 IN. 2MGP = -4.0500 IN.
SCALE = .0405

FACIMETRIC DATA

BETA = .000 FTM/F = 1.000
HVB = .246 ELEVON = .000

RUN NC. 71/ 0 RM/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

WACH	ALPHA	Q(PSF)	FSTAT	CFBAB1	CFBAB2	CFBAB3	CFBAB1	CFBAB2	CFBAB3	HVB
.165	-4.000	60.80000	2117.70001	-.27000	-.01900	-.00100	-.17800	-.15600	-.04600	.29000
.165	.000	60.80000	2116.70001	-.25900	-.01600	.00200	-.16200	-.13500	-.02700	.24600
.165	4.900	61.10000	2116.39999	-.25400	-.00800	.00600	-.17600	-.12900	-.02000	.24200
.165	10.000	61.80000	2116.39999	-.24200	.01200	.01800	-.19200	-.12100	-.04700	.27900
.165	14.900	62.60000	2116.39999	-.25500	.01600	.00900	-.20800	-.13600	-.04200	.27400
.165	19.900	63.10000	2117.50000	-.26300	.00300	.00500	-.25400	-.16100	-.05400	.27700
GRADIENT		.10240	-.06879	.00083	.00206	.00060	-.00194	.00109	-.00031	-.00064

REFERENCE DATA

SREF = 4.4120 SQ.FT. 3MGP = 43.5980 IN.
LREF = 19.2300 IN. 1MGP = .0000 IN.
BREF = 37.9350 IN. 2MGP = -4.0500 IN.
SCALE = .0405

FACIMETRIC DATA

BETA = .000 FTM/F = 1.000
HVB = .246 ELEVON = .000

RUN NC. 72/ 0 RM/L = 1.20 GRADIENT INTERVAL = -4.00/ 16.00

WACH	ALPHA	Q(PSF)	FSTAT	CFBAB1	CFBAB2	CFBAB3	CFBAB1	CFBAB2	CFBAB3	HVB
.165	-3.900	60.80000	2116.10001	-.22100	-.07800	-.01600	-.28500	-.13500	-.01600	.24900
.165	.000	61.20000	2115.79999	-.22000	-.06400	-.00800	-.29800	-.13600	-.02400	.24600
.165	4.900	61.30000	2115.60001	-.22800	-.05700	-.00600	-.28000	-.13500	-.03500	.24200
.165	10.000	61.80000	2115.10001	-.21500	-.03500	.00200	-.21900	-.12300	-.05900	.27900
.165	14.900	63.00000	2115.29999	-.22500	-.03700	.00100	-.21000	-.14200	-.05400	.27400
.165	19.900	62.90000	2116.20001	-.23600	-.05400	-.00200	-.27500	-.15300	-.05300	.27700
GRADIENT		.10566	-.04801	-.00006	.00232	.00085	.00430	-.00002	-.00029	-.00061

DATE 04 OCT 74 TABULATED SOURCE DATA - QAS78

QAS7-B 816C3F1 J40 WOTE18 WING LOWER SURFACE (RDVLOS) (12 NOV 75)

REFERENCE DATA

REF = 4.4180 82.11. 20MP = 43.5940 IN.
 LREF = 18.2300 IN. 10MP = .0000 IN.
 BREF = 37.9390 IN. 20MP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.000
 H/B = .039 BDFLAP = -18.000
 ELEVON = .000

MACH (1) = .165 ALPHA (1) = 10.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/H

.000 .4235 .4637 .2505 .3917 .3052 .2060
 .334 .4581 .1421 .3199 .3659 .2176 .1505
 .520 .0744 .2504 .2491 .1368 .1633 .0940
 .643 .4404 .2636 .0513 -.0341 -.2121 .0566
 .875 .3365 .0444 -.1042 -.2215 -.2967 -.1729

MACH (1) = .165 ALPHA (2) = 15.025 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/H

.000 .4686 .5128 .3575 .4732 .4400 .3272
 .334 .5130 .2332 .3762 .4509 .3284 .2465
 .520 .1267 .2002 .2958 .2580 .2462 .1239
 .643 .3485 .2033 .1307 .0811 -.0223 .0490
 .875 .3914 .1456 -.0132 -.1668 -.2720 -.2194

MACH (1) = .165 ALPHA (3) = 20.045 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/H

.000 .5465 .5797 .4373 .5460 .5332 .4411
 .334 .5806 .3585 .4801 .5203 .3964 .2977
 .520 .2336 .3474 .2776 .2301 .2452 .0622
 .643 .6288 .3929 .2240 .1755 -.0603 -.0819
 .875 .4887 .2674 .1383 -.0086 -.2070 -.2202

CAST-8 B18C5F1 J40 W07E10 WING LOWER SURFACE

(BDVL04) (12 NOV 73)

REFERENCE DATA

BREF = 4.4120 84.FT. 10MRP = 43.5940 IN.
 LREF = 10.2300 IN. 1MRP = .0000 IN.
 WREF = 37.9350 IN. 2MRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.300
 M/B = .039 BOFLAP = -10.000
 ELEVON = .000

MACH (1) = .165 ALPHA (1) = 10.000 RN/L = 1.200 MACH = .165
 SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/Y

.000 .4255 .4662 .2670 .4157 .4257 .3420
 .334 .4755 .2099 .4087 .4858 .3505 .2140
 .520 .1058 .2950 .3280 .2709 .2046 .0724
 .665 .3358 .2033 .0756 .1299 -.0687 .0712
 .875 .3248 -.0360 -.1793 -.3281 -.3718 -.2090

MACH (1) = .165 ALPHA (2) = 15.050 RN/L = 1.200 MACH = .165
 SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/Y

.000 .4932 .5122 .3545 .4867 .5912 .5775
 .334 .5211 .2931 .4590 .5640 .4845 .3562
 .520 .0208 .3288 .3228 .2572 .3352 .1828
 .665 .1945 .2721 .1832 .1916 .0504 .1254
 .875 .4082 .1317 -.0198 -.1797 -.2906 -.1971

MACH (1) = .165 ALPHA (3) = 19.960 RN/L = 1.200 MACH = .165
 SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/Y

.000 .5513 .5782 .4411 .5551 .6548 .7461
 .334 .5878 .4001 .3596 .6158 .5375 .4204
 .520 .2481 .3531 .3447 .2781 .3551 .1461
 .665 .4782 .3812 .2249 .2109 -.0565 .0113
 .875 .4751 .2487 .1244 -.0467 -.1989 -.2054

DATE 08 OCT 74 TABULATED SOURCE DATA - OA37B

(RDVLOS) (12 NOV 73)

OA37-B B16C5F1 J40 WATE10 WING LOWER SURFACE

REFERENCE DATA

REF = 4.4120 82.FT. XWRP = 43.594C IN.
LREF = 19.2300 IN. FWRP = .0000 IN.
BREF = 37.9350 IN. ZWRP = -.4050 IN.
SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.500
H/B = .039 BDFLAP = -18.000
ELEVON = .000

MACH (1) = .165 ALPHA (1) = 9.990 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

21/8

.000 .4417 .4247 .2446 .4083 .4810 .5551
.334 .4708 .2091 .4233 .3308 .3988 .2794
.520 .0598 .2657 .3508 .3541 .2889 .0769
.663 .2352 .1383 .0633 .1346 -.0286 .0983
.873 .3430 -.0111 -.1430 -.3145 -.3348 -.1593

MACH (1) = .165 ALPHA (2) = 15.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

21/8

.000 .4862 .4768 .3484 .4939 .6377 .7821
.334 .3122 .2631 .4579 .5996 .5783 .4753
.520 -.1683 .2477 .3265 .2296 .4474 .2355
.663 -.3663 .2002 .1686 .1673 .0146 .1603
.873 .4041 .1359 -.0194 -.1677 -.2713 -.1638

MACH (1) = .165 ALPHA (3) = 20.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

21/8

.000 .5549 .5352 .4227 .5370 .6852 .8995
.334 .5816 .3973 .5246 .6483 .6290 .5218
.520 .2223 .2936 .3358 .3120 .3883 .2029
.663 .4177 .4401 .2694 .2015 -.0007 .0886
.873 .4644 .2281 .0945 -.0753 -.2470 -.1614

REFERENCE DATA

SREF = 4.4120 93.FT. ZMRP = 43.5940 IN.
LREF = 19.2300 IN. (MRP) = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4030 IN.
SCALE = .0403

MACH (1) = .165 ALPHA (1) = -3.980 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 .0505 -.6191 -.6472 -.3566 -.2643 -.2104
.334 -.3923 -.9595 -.4980 -.3047 -.2871 -.1878
.520 -.6676 -.3827 -.2302 -.2594 -.2514 -.1367
.663 -.4604 -.2460 -.2331 -.2352 -.3514 -.0729
.873 -.0944 -.2504 -.2822 -.3371 -.2803 -.0264

MACH (1) = .165 ALPHA (2) = .010 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 .1488 -.2918 -.4548 -.1785 -.1773 -.1440
.334 -.0981 -.6042 -.3013 -.1523 -.2474 -.1301
.520 -.3822 -.1831 -.0732 -.1309 -.1688 -.0756
.663 -.1258 -.0134 -.0557 -.0992 -.2908 -.0565
.873 .2236 -.0664 -.1400 -.2242 -.1759 -.0247

MACH (1) = .165 ALPHA (3) = 4.980 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 .2433 -.0118 -.2213 .0029 -.0405 -.0553
.334 .1528 -.2772 -.0920 .0049 -.1359 -.0742
.520 -.3014 -.0099 .0611 -.0768 -.1875 -.1518
.663 .2120 .2250 .1267 .0392 -.2123 -.0526
.873 .3703 .0748 -.0144 -.1407 -.1607 -.0700

PARAMETRIC DATA

BETA = .000 PTN/P = 1.000
H/B = .125 BDFLAP = -18.000
ELEVON = .000

DATE 08 OCT 74 TABULATED SOURCE DATA - OA57B (RDVL08)

MACH (1) = .165 ALPHA (4) = 10.015 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B
.000 .3264 .1665 -.0446 .1505 .0631 .0203
.334 .2919 -.0790 .0711 .1551 .0030 .0030
.520 -.1325 .1583 .1071 -.0651 -.2021 -.1408
.663 .4397 .3632 .2308 .1377 -.1207 -.0198
.873 .4447 .1686 .0523 -.0646 -.1772 -.0298

MACH (1) = .165 ALPHA (5) = 15.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B
.000 .4101 .3056 .0841 .2537 .1784 .0703
.334 .4000 .0949 .1988 .2439 .0626 .0436
.520 .0531 .1421 -.0149 .0675 .0045 -.0339
.663 .6465 .4722 .2281 .1497 -.1112 -.0706
.873 .4571 .2408 .1291 .0111 -.1330 -.0382

MACH (1) = .165 ALPHA (6) = 19.965 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B
.000 .4879 .3975 .1686 .3206 .2097 .0696
.334 .4829 .2230 .2854 .2667 .0564 .0109
.520 .3065 .0845 -.1123 .0032 -.1035 -.1898
.663 .7724 .4163 .2816 .2095 -.0846 -.1338
.873 .4888 .2743 .1584 .0197 -.1661 -.1080

DATE 06 OCT 74 TABULATED SOURCE DATA - QAS7B

(RDVLDT) (12 NOV 75)

QAS7-B B16CSF1 J40 WATE18 WING LOWER SURFACE

REFERENCE DATA

SREF = 4.4120 93.FT. XMRP = 43.5940 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 LREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0403

MACH (1) = .165 ALPHA (1) = -3.980 RN/L = 1.200 MACH = .165

SECTION (1) WING

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B
 .000 .0277 -.0709 -.9019 -.5152 -.3134 -.1776
 .334 -.5076 -1.1843 -.6515 -.3929 -.3895 -.2027
 .520 -.7961 -.5526 -.3325 -.2939 -.2899 -.1103
 .663 -.9619 -.5159 -.2820 -.2700 -.3807 -.1022
 .873 -.1279 -.2765 -.3025 -.3420 -.2962 -.0516

MACH (1) = .165 ALPHA (2) = .005 RN/L = 1.200 MACH = .165

SECTION (1) WING

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B
 .000 .1394 -.4165 -.6015 -.2717 -.2154 -.1453
 .334 -.1411 -.7169 -.3934 -.2011 -.3071 -.1560
 .520 -.4972 -.2591 -.1231 -.1641 -.2036 -.0767
 .663 -.1937 -.0537 -.0825 -.1224 -.3140 -.0665
 .873 .1774 -.0831 -.1456 -.2249 -.1910 -.0017

MACH (1) = .165 ALPHA (3) = 4.995 RN/L = 1.200 MACH = .165

SECTION (1) WING

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B
 .000 .2430 -.0818 -.2937 -.0469 -.0533 -.0486
 .334 .1361 .3352 -.1177 -.0026 -.1485 -.0827
 .520 -.2399 -.0392 .0456 -.0854 -.1966 -.1524
 .663 .1630 .1847 .0860 -.0010 -.2652 -.1054
 .873 .3502 .0670 -.0266 -.1367 -.1496 -.0724

PARAMETRIC DATA

BETA = .000 PTN/P = 1.300
 H/B = .125 BDFLAP = -18.000
 ELEVON = .000

DATE 08 OCT 74 TABULATED SOURCE DATA - CA37B

CA37-B B18C5F1 J40 WOTE18 WING LOWER SURFACE (RDVLOT)

MACH (1) = .165 ALPHA (4) = 9.975 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000	.3257	.1213	-.1073	.1093	.0821	.0168
.334	.2743	-.0908	.0368	.1515	.0008	.0078
.520	-.1118	.1648	.1368	-.0200	-.1689	-.1156
.683	.3508	.3340	.2161	.0952	-.2155	-.0899
.873	.4414	.1579	.0584	-.0553	-.1742	-.0193

MACH (1) = .165 ALPHA (5) = 15.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000	.4063	.2517	.0171	.2193	.1775	.0756
.334	.3758	.0430	.1632	.2532	.0758	.0518
.520	-.0336	.1040	.0918	.0562	-.0276	-.0606
.683	.2386	.4738	.3208	.1864	-.1583	-.0653
.873	.4418	.2400	.1234	-.0020	-.1353	-.0218

MACH (1) = .165 ALPHA (6) = 19.975 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000	.5014	.3838	.1451	.3182	.2587	.1177
.334	.4848	.2131	.2934	.3240	.1349	.0676
.520	.2402	.1476	.0684	.0846	-.0313	-.1341
.683	.6714	.5398	.3327	.1641	-.2613	-.2550
.873	.5168	.3508	.2145	.0678	-.1067	-.0389

CA57-B 816C3F1 J40 W8TE18 WING LOWER SURFACE

(REVLOC) (12 NOV 73)

REFERENCE DATA

BREF = 4.4120 84.FT. XMRP = 43.5940 IN.
LREF = 19.2300 IN. RMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0403

MACH (1) = .165 ALPHA (1) = -4.015 RN/L = 1.200 MACH = .165

SECTION (1) WING

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 -.0137 -1.0455 -1.1210 -.6828 -.4034 -.2177
.334 -.6249 -1.4036 -.8751 -.5101 -.4986 -.2610
.520 -.9599 -.7160 -.4763 -.3625 -.2921 -.2552
.663 -.7087 -.4160 -.3683 -.3249 -.4403 -.1630
.873 -.2055 -.3312 -.3469 -.3757 -.3262 -.0788

MACH (1) = .165 ALPHA (2) = -.030 RN/L = 1.200 MACH = .165

SECTION (1) WING

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 .1141 -.5022 -.7432 -.3907 -.2829 -.1674
.334 -.2157 -.7836 -.5361 -.2968 -.3639 -.1959
.520 -.6465 -.3612 -.2165 -.2381 -.2030 -.2503
.663 -.2996 -.1221 -.1362 -.1681 -.3800 -.1286
.873 .1132 -.1207 -.1782 -.2408 -.2162 -.0361

MACH (1) = .165 ALPHA (3) = 4.990 RN/L = 1.200 MACH = .165

SECTION (1) WING

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 .2471 -.1281 -.3688 -.1155 -.0925 -.0516
.334 .1101 -.3791 -.1874 -.0877 -.1859 -.1132
.520 -.2722 -.0736 .0671 -.1292 -.2256 -.3190
.663 .1098 .1573 .0876 -.0138 -.3037 -.1482
.873 .3518 .0645 -.0243 -.1197 -.1402 -.0972

PARAMETRIC DATA

BETA = .000 PTN/P = 1.500
H/B = .125 BDCLAP = -16.000
ELEVON = .000

DATE 08 OCT 74

TABULATED SOURCE DATA - CA578

(REVLO8)

CA57-B 816C5F1 J40 WATE18 WING LOWER SURFACE

MACH (1) = .165 ALPHA (4) = 9.980 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 .3393 .0869 -.1421 .0678 .0636 .0254
.334 .2751 -.1293 .0376 .1045 -.0177 .0068
.520 -.1168 .1503 .1572 -.0413 -.1791 -.1723
.663 .3352 .3235 .2221 .1128 -.2105 -.1200
.873 .4651 .1738 .0807 -.0354 -.1328 -.0337

MACH (1) = .165 ALPHA (5) = 14.950 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 .4194 .2428 .0101 .1973 .1945 .1141
.334 .3915 .0387 .1787 .2404 .0960 .0751
.520 .0331 .2523 .1971 .0708 -.0255 -.0421
.663 .4281 .4195 .3264 .2210 -.1739 -.1034
.873 .4689 .2540 .1356 .0279 -.1248 -.0201

MACH (1) = .165 ALPHA (6) = 19.965 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 .5009 .3568 .1440 .3086 .2472 .1466
.334 .4787 .2264 .2960 .3004 .1262 .0649
.520 .2163 .1110 .0167 .0870 -.0482 -.1632
.663 .7010 .5722 .3038 .1368 -.2953 -.3191
.873 .5051 .3223 .1941 .0565 -.1242 -.0617

QAS7-8 B16C5F1 J40 W8TE18 WING LOWER SURFACE (RDVL15) (12 NOV 73)

REFERENCE DATA

BREF = 4.4150 8d.FT. XMRP = 43.9840 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

MACH (1) = .165 ALPHA (1) = -3.965 RN/L = 1.200 MACH = .165
 SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r/B

.000 .0592 -.4491 -.4517 -.2105 -.1634 -.1087
 .334 -.2411 -.6511 -.4084 -.1930 -.2057 -.1123
 .520 -.4397 -.2335 -.1590 -.1668 -.1774 -.0822
 .663 -.3192 -.1393 -.1292 -.1409 -.2831 -.0060
 .873 -.0534 -.1796 -.2393 -.2886 -.2877 -.1495

MACH (1) = .165 ALPHA (2) = .015 RN/L = 1.200 MACH = .165
 SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r/B

.000 .1265 -.2981 -.3695 -.1301 -.1063 -.0760
 .334 -.0788 -.4675 -.3104 -.1072 -.1727 -.0863
 .520 -.2646 -.1281 -.0527 -.0939 -.1271 -.0621
 .663 -.0888 .0092 -.0243 -.0748 -.2562 -.0371
 .873 .1950 -.0436 -.1438 -.2217 -.2679 -.1423

MACH (1) = .165 ALPHA (3) = 5.000 RN/L = 1.200 MACH = .165
 SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r/B

.000 .2122 -.1362 -.2473 -.0331 -.0441 -.0227
 .334 .0995 -.2735 -.1793 -.0171 -.1228 -.0622
 .520 -.1921 .0412 .0871 -.0851 -.1962 -.1475
 .663 .1837 .2120 .1271 .0420 -.1913 -.0521
 .873 .3360 .0913 -.0194 -.1441 -.2279 -.1518

PARAMETRIC DATA

BETA = .000 PTN/P = 1.000
 H/B = .286 BDFLAP = -18.000
 ELEVON = .000

DATE 08 OCT 74

TABULATED SOURCE DATA - QAS7B

PAGE 78

QAS7-B B16C3F1 J40 WBT18 WING LOWER SURFACE (RDVL13)

MACH (1) = .165 ALPHA (4) = 10.015 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r/B

.000	.2941	.0177	-.1500	.0595	.0239	.0241
.334	.2298	-.1304	-.0558	.0763	-.0495	-.0241
.520	-.0172	.2066	.1005	-.0922	-.2277	-.1562
.663	.3924	.3624	.2336	.1347	-.1110	-.0526
.873	.4446	.1796	.0568	-.0756	-.1938	-.1912

MACH (1) = .165 ALPHA (5) = 14.975 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r/B

.000	.3787	.1508	-.0568	.1409	.0813	.0651
.334	.3215	.0060	.0553	.1454	-.0177	-.0099
.520	.0829	.2054	-.0288	.0029	-.0582	-.0802
.663	.5038	.4637	.2737	.1671	-.0910	-.0680
.873	.4711	.2532	.1271	-.0032	-.1743	-.2642

MACH (1) = .165 ALPHA (6) = 20.000 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r/B

.000	.4655	.2726	.0320	.2135	.1134	.0786
.334	.4144	.1396	.1422	.1732	-.0111	-.0421
.520	.1067	.1028	-.1156	.0722	-.0550	-.1715
.663	.7377	.4981	.2751	.1720	-.1112	-.1859
.873	.4975	.2944	.1601	.0163	-.2009	-.3728

Q437-B 818C5F1 J40 W07E18 WING LOWER SURFACE (BDVL16) (12 NOV 73)

REFERENCE DATA

WREF = 4.4120 84.FT. XWRP = 43.5940 IN.
 LREF = 19.2500 IN. YWRP = .0000 IN.
 WREF = 37.9350 IN. ZWRP = -.4050 IN.
 SCALE = .0405

MACH (1) = .165 ALPHA (1) = -3.985 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/B

.000 .0312 -.3681 -.6785 -.3445 -.2381 -.1628
 .334 -.3324 -.8184 -.6142 -.2437 -.3179 -.1482
 .320 -.6657 -.4504 -.3035 -.2333 -.2780 -.1154
 .663 -.4790 -.2346 -.2136 -.2281 -.3279 -.0780
 .873 -.1471 -.2295 -.2844 -.3131 -.2866 -.1358

MACH (1) = .165 ALPHA (2) = .015 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/B

.000 .1057 -.4230 -.5546 -.2497 -.1692 -.1603
 .334 -.1616 -.7037 -.4864 -.1416 -.2687 -.1328
 .320 -.3182 -.3310 -.1696 -.1533 -.2206 -.1043
 .663 -.2151 -.0645 -.0631 -.1326 -.2912 -.0715
 .873 .1125 -.0846 -.1873 -.2448 -.2556 -.1241

MACH (1) = .165 ALPHA (3) = 5.000 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/B

.000 .1901 -.2326 -.3998 -.1461 -.1100 -.1216
 .334 .0214 -.4354 -.2887 -.0502 -.2053 -.1135
 .320 -.2755 -.1076 -.0178 -.1387 -.2652 -.2247
 .663 .0707 .1234 .0494 -.0320 -.2490 -.0986
 .873 .3075 .0558 -.0659 -.1638 -.2183 -.1599

PARAMETRIC DATA

BETA = .000 PTN/P = 1.500
 H/B = .286 BDFLAP = -18.000
 ELEVON = .000



DATE 06 OCT 74 TABULATED SOURCE DATA - CAS78

(ROWL18)

CAS78-B B16C5F1 J40 W07E18 WING LOWER SURFACE
MACH (1) = .165 ALPHA (4) = 10.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/Y/B

.000 .2714 -.0038 -.2736 -.0421 -.0475 -.0858
.334 .1734 -.2336 -.1436 .0486 -.1346 -.0752
.520 -.1329 .0829 .0424 -.1384 -.2940 -.2553
.663 .2837 .2716 .1668 .0812 -.1709 -.0835
.873 .4228 .1587 .0527 -.1020 -.1753 -.1844

MACH (1) = .165 ALPHA (5) = 15.010 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/Y/B

.000 .3712 .0730 -.1544 .0685 .0326 -.0343
.334 .2891 -.0747 -.0124 .1428 -.0482 -.0245
.520 -.0241 .1699 .0829 -.0683 -.2528 -.2270
.663 .4204 .4000 .2975 .1725 -.1235 -.1190
.873 .4644 .2513 .1266 -.0204 -.1286 -.2209

MACH (1) = .165 ALPHA (6) = 20.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/Y/B

.000 .4617 .2061 -.0530 .1587 .0868 -.0318
.334 .3494 .0740 .1271 .1955 -.0283 -.0460
.520 -.0871 .1306 -.1326 -.0268 -.1284 -.2458
.663 .5838 .5401 .3825 .2330 -.1349 -.2636
.873 .5293 .3340 .2001 .0592 -.1076 -.2894

QAS7-B B16C5F1 J40 WATE10 WING LOWER SURFACE

(REV17) (12 NOV 73)

REFERENCE DATA

BREF = 4.4120 84.71. 304P = 43.9940 IN.
 LREF = 19.2300 IN. 744P = .0000 IN.
 BREF = 37.9350 IN. 244P = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.300
 M/B = .286 BOFLAP = -18.000
 ELEVON = .000

MACH (1) = .165 ALPHA (1) = -3.975 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/Y/B

.000 .0446 -.3521 -.3733 -.2912 -.2093 -.1429
 .334 -.3035 -.7902 -.5209 -.2153 -.2740 -.1256
 .520 -.5865 -.3067 -.2769 -.2321 -.2282 -.0784
 .643 -.4034 -.2004 -.1923 -.1917 -.2933 -.0483
 .873 -.0992 -.2135 -.2645 -.2970 -.2924 -.1321

MACH (1) = .165 ALPHA (2) = .005 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/Y/B

.000 .1131 -.3900 -.4700 -.2093 -.1615 -.1280
 .334 -.1297 -.6040 -.4170 -.1025 -.2352 -.1086
 .520 -.3439 -.2117 -.1430 -.1342 -.1776 -.0639
 .643 -.1558 -.0340 -.0621 -.1052 -.2607 -.0635
 .873 .1544 -.0655 -.1706 -.2330 -.2452 -.1242

MACH (1) = .165 ALPHA (3) = 5.000 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/Y/B

.000 .2036 -.2058 -.3312 -.0842 -.0872 -.0890
 .334 .0588 -.3565 -.2305 -.0054 -.1719 -.0931
 .520 -.1934 -.0222 .0405 -.1136 -.2185 -.1582
 .643 .1275 .1080 .0805 -.0101 -.2184 -.0886
 .873 .3209 .0767 -.0347 -.1576 -.2007 -.1490

DATE 06 OCT 74 TABULATED SOURCE DATA - QAS78 (RDVL17)

QAS7-B B16C5F1 J40 W07E10 WING LOWER SURFACE
MACH (1) = .165 ALPHA (4) = 9.975 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r
.000 .2908 -.0410 -.2082 .0065 -.0165 -.0483
.334 .1898 -.1926 -.0914 .0976 .0892 -.0425
.520 -.0724 .1782 .0517 -.0638 -.2274 -.1780
.663 .3239 .3034 .1875 .0904 -.1625 -.1030
.873 .4433 .1710 .0600 -.0931 -.1666 -.1850

MACH (1) = .165 ALPHA (5) = 15.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r
.000 .3792 .1008 -.1108 .0979 .0517 -.0211
.334 .3079 -.0336 .0161 .1822 -.0141 -.0202
.520 .0135 .2259 .1240 -.0253 -.1921 -.1497
.663 .4421 .4258 .3051 .1606 -.1421 -.1444
.873 .4741 .2420 .1266 -.0156 -.1418 -.2233

MACH (1) = .165 ALPHA (6) = 20.005 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r
.000 .4665 .2375 .0023 .1806 .0946 -.0044
.334 .4005 .1240 .1623 .2214 -.0017 -.0481
.520 .0279 .1346 -.1226 .0102 -.1009 -.1923
.663 .6904 .3268 .3294 .1734 -.1941 -.3145
.873 .3265 .3319 .2101 .0537 -.1079 -.2765

REFERENCE DATA

REF = 4.4183 64.FT. WARP = 43.3940 IN.
 LREF = 19.2300 IN. WARP = .0000 IN.
 MREF = 37.8350 IN. WARP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.500
 H/B = .125 BOFLAP = -16.000
 ELEVON = 15.300

MACH (1) = .165 ALPHA (1) = -4.025 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/H

.000 .0425 -.7604 -.6050 -.4927 -.2196 -.1549
 .334 -.4691 -.7872 -.5676 -.2076 -.1220 -.2477
 .520 -.7937 -.3182 -.2548 -.1251 .1565 .0450
 .663 -.3967 -.1531 -.0917 -.0488 .1967 .0659
 .873 .0431 -.1156 -.1124 .0466 .0812 -.0229

MACH (1) = .165 ALPHA (2) = -.020 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/H

.000 .1613 -.3506 -.1988 -.2140 -.1146 -.1017
 .334 -.1016 -.3326 -.2683 .0036 .0346 -.0793
 .520 -.3764 -.1155 -.0556 .0305 .2767 .3058
 .673 -.0369 .0846 .0829 .0290 .3230 .1758
 .873 .3098 .0462 .0144 .0877 .1274 -.0367

MACH (1) = .165 ALPHA (3) = 4.950 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/H

.000 .2802 -.0318 -.1938 .0274 .0592 .0013
 .334 .1764 -.0175 .0014 .2174 .2224 .0699
 .520 -.1191 .1410 .1774 .1314 .3436 .2702
 .663 .2942 .3047 .2411 .1988 .4326 .2535
 .873 .4384 .1325 .0921 .1313 .1361 -.0861

(RDVL28)

DATE 08 OCT 74 TABULATED SOURCE DATA - QAS7B
 QAS7-B 816C5F1 J40 W87E10 WING LOWER SURFACE
 MACH (1) = .165 ALPHA (4) = 9.965 RN/L = 1.200 MACH = .165

SECTION (1) WING
 DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
21/B						
.000	.3748	.1485	-.0007	.1841	.2122	.1056
.334	.3177	.1976	.1663	.3518	.3677	.2426
.520	.0496	.3295	.2756	.2269	.4156	.4799
.663	.4483	.4231	.3584	.2855	.4935	.2552
.873	.4979	.2290	.1610	.1727	.1409	-.1394

MACH (1) = .165 ALPHA (5) = 14.965 RN/L = 1.200 MACH = .165

SECTION (1) WING
 DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
21/B						
.000	.4614	.2653	.1144	.2900	.3018	.1683
.334	.4183	.3097	.2607	.4301	.4336	.3124
.520	-.1136	.2724	.2332	.2756	.5074	.4071
.663	.4925	.5742	.4729	.3655	.5383	.2316
.873	.5140	.3367	.2505	.2503	.1981	-.1413

MACH (1) = .165 ALPHA (6) = 19.990 RN/L = 1.200 MACH = .165

SECTION (1) WING
 DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
21/B						
.000	.5356	.3753	.2233	.3704	.3531	.1929
.334	.5077	.4305	.3767	.4817	.4681	.3083
.520	.2864	.2358	.2021	.2406	.4951	.2524
.663	.7482	.6039	.4270	.2943	.4107	-.1231
.873	.5564	.4094	.3216	.3149	.2530	-.1027

DATE 08 OCT 74 TABULATED SOURCE DATA - QAS78

QAS7-B B1C3F1 J40 W07E18 WING LOWER SURFACE (RDVL28) (12 NOV 73)

REFERENCE DATA

MACF = 4.4120 82.FT. XMRP = 43.5840 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.500
 H/B = .125 BDFLAP = -16.000
 ELEVON = 15.000

MACH (1) = .165 ALPHA (1) = -4.010 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B
 .000 .0703 -.6438 -.6017 -.3561 -.1708 -.1371
 .334 -.3461 -.5293 -.3879 -.1709 -.1205 -.2512
 .520 -.6271 -.2198 -.1755 -.0894 .1436 .1345
 .663 -.2746 -.0779 -.0335 -.0346 .1639 .0715
 .873 .0982 -.0844 -.1049 .0314 .0765 -.0458

MACH (1) = .165 ALPHA (2) = -.030 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B
 .000 .1787 -.2653 -.3578 -.1348 -.0354 -.0433
 .334 -.0365 -.1863 -.2006 .0509 .0534 -.0338
 .520 -.2398 -.0563 -.0101 .0481 .2093 .1706
 .663 .0350 .1342 .1101 .0848 .2968 .1640
 .873 .3284 .0463 .0226 .0887 .1130 -.0612

MACH (1) = .165 ALPHA (3) = 4.965 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B
 .000 .2953 .0226 -.1150 .0847 .1044 .0848
 .334 .2142 .0825 .0613 .2497 .2304 .0907
 .520 -.0474 .2204 .1389 .3218 .1473
 .663 .3582 .3563 .2595 .1794 .3664 .1743
 .873 .4510 .1277 .0934 .1158 .1319 -.0963

(RDVL29)

C057-B 816C3F1 J40 W07E10 WING LOWER SURFACE

MACH (1) = .165 ALPHA (4) = 9.965 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 .3630 .1805 .0464 .2201 .2273 .1727
.334 .3426 .2622 .1930 .3651 .3363 .2202
.520 .0872 .3511 .2889 .2223 .3731 .2420
.663 .4850 .4730 .3636 .2441 .4192 .1620
.873 .4941 .2246 .1533 .1566 .1396 -.1499

MACH (1) = .165 ALPHA (5) = 14.950 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 .4673 .3098 .1597 .3152 .3083 .2132
.334 .4384 .3650 .2938 .4297 .3927 .2736
.520 -.0119 .2491 .2087 .2648 .3964 .2521
.663 .6444 .5622 .3936 .2881 .4308 .1585
.873 .5083 .3359 .2500 .2545 .2083 -.1277

MACH (1) = .165 ALPHA (6) = 19.960 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 .5473 .4208 .2499 .3927 .3553 .2367
.334 .5160 .4521 .3534 .4814 .4226 .3063
.520 .0089 .3783 .3771 .3070 .4157 .2042
.663 .5309 .4289 .3434 .2728 .3755 .0161
.873 .5424 .3636 .3061 .2979 .2413 -.1107

COA57-8 B16C5F1 J40 W8TE10 WING LOWER SURFACE

(ADVL 50) (12 NOV 73)

REFERENCE DATA

10AEF = 4.420 83.FT. 10MRP = 43.5940 IN.
 11AEF = 19.2300 IN. 11MRP = .0000 IN.
 12AEF = 37.9350 IN. 12MRP = -.4050 IN.
 13SCALE = .0405

PARAMETRIC DATA

BETA	=	.000	PTN/P	=	1.000
H/B	=	.125	BDFLAP	=	-10.000
ELEVON	=	15.000			

$$\text{MACH} (1) = .165 \quad \text{ALPHA} (1) = -4.000 \quad \text{RN/L} = 1.200 \quad \text{WACH} = .165$$

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
-----	-------	-------	-------	-------	-------	-------

21/8	1046	4415	4170	1913	1409	1216
000						
334	2178	3220	2466	0700	0708	0958
320	4560	1335	0644	0547	0656	0139
643	1643	0095	0198	0141	1530	0507
873	1550	0716	0873	0440	0774	0630

$$\begin{aligned} \text{MACH (1)} &= .163 & \text{ALPHA (2)} &= -.020 & \text{RN/L} &= 1.200 & \text{MACH} &= .163 \end{aligned}$$

SECTION (1) WING

DEPENDENT VARIABLE CP

	.9000	.7500	.6000	.4500	.3000	.1500	X/C
--	-------	-------	-------	-------	-------	-------	-----

21/8	.000	.1919	-.1667	-.2586	-.0436	.0630	-.0586
	.334	.0079	-.0576	-.1126	.0821	.0463	-.0099
	.520	-.1794	.0114	.0427	.0425	.1316	.0461
	.663	.0902	.1779	.1201	.0762	.2672	.1147
	.873	.3479	.0346	.0227	.0624	.1065	-.0799

$$\text{MACH (1)} = .165 \quad \text{ALPHA (3)} = 4.965 \quad \text{RN/L} = 1.200 \quad \text{MACH} = .165$$

SECTION (1) WING

DEPENDENT VARIABLE: CP

X/C
.1500 .3000 .4500 .6000 .7500 .9000

21/B	.000	.2915	.0726	-.0600	.1237	.0740	.0269
	.334	.2298	.1242	.0690	.2362	.2009	.0877
	.320	-.0300	.2329	.2273	.0955	.2548	.0461
	.663	.3951	.4000	.2683	.1683	.3623	.1115
	.673	.4623	.1195	.1006	.1048	.1100	-.1100

DATE 08 OCT 74 TABULATED SOURCE DATA - OA57B

(80V130)

OA57-B B16C3F1 J40 W07E18 WING LOWER SURFACE
MACH (1) = .165 ALPHA (4) = 9.985 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r/B

.000 .3808 .2268 .0952 .2548 .1850 .1099
.334 .3548 .2834 .1935 .3496 .2921 .1750
.520 .1184 .3594 .2519 .1673 .2846 .0949
.663 .5926 .5187 .3130 .2148 .3777 .1442
.873 .4627 .2319 .1569 .1529 .1361 -.1613

MACH (1) = .165 ALPHA (5) = 14.980 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r/B

.000 .4611 .3462 .1889 .3295 .2601 .1573
.334 .4376 .3801 .2816 .3915 .3086 .2194
.520 .0755 .2870 .1801 .2135 .2814 .1553
.663 .7236 .5606 .3164 .2561 .3601 .1268
.873 .5009 .3133 .2223 .2283 .1782 -.1569

MACH (1) = .165 ALPHA (6) = 19.980 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r/B

.000 .5336 .4464 .2702 .3907 .2929 .1643
.334 .5246 .4861 .3671 .4275 .3045 .1929
.520 .4711 .3015 .1345 .1197 .2233 .0363
.663 .8277 .4710 .3129 .2767 .3587 .0825
.873 .5310 .3520 .2799 .2502 .1806 -.1628

REFERENCE DATA

BAEF = 4.4120 82.FT. XWEP = 43.5940 IN.
LAEF = 18.2300 IN. RWEP = .0000 IN.
BAEF = 37.9350 IN. ZWEP = -.4050 IN.
SCALE = .0405

MACH (1) = .165 ALPHA (1) = 10.010 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z1/B						
.000	.4777	.4625	.4442	.5623	.7552	1.0420
.334	.5353	.4576	.5906	.7471	.8439	.8594
.520	.2110	.3944	.5266	.3767	.9802	1.2512
.663	.3791	.2994	.5665	.4248	.1407	.6653
.873	.3255	-.0427	-.0921	-.0101	-.0493	-.3496

MACH (1) = .165 ALPHA (2) = 15.005 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z1/B						
.000	.5477	.4847	.4757	.5969	.7814	.9927
.334	.5544	.4515	.5917	.7639	.8529	.8853
.520	-.2284	.2634	.3519	.1921	.9336	1.1403
.663	.1028	.2125	.2312	.1619	.1037	1.0248
.873	.4106	.1492	.0289	.0417	.0191	-.3963

MACH (1) = .165 ALPHA (3) = 20.000 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z1/B						
.000	.6151	.5501	.5274	.6450	.7951	.9919
.334	.6104	.5252	.6252	.7770	.8504	.8804
.520	-.1709	.2629	.3745	.4200	.6798	.9006
.663	-.1201	.2606	.3170	.2349	.3548	.8239
.873	.4730	.2754	.1690	.1321	.0556	-.3028

DATE 06 OCT 74

TABULATED SOURCE DATA - OA37B

PAGE 91

OA37-B 816C5F1 J40 W8TE18 WING LOWER SURFACE

(RDVL32) (12 NOV 73)

REFERENCE DATA

MREF = 4.4120 24.1 FT. XMRP = 43.5940 IN.
 LREF = 18.2300 IN. YMRP = .0000 IN.
 BREF = 37.8350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.300
 H/B = .039 BOFLAP = -18.000
 ELEVON = 15.000

MACH (1) = .165 ALPHA (1) = 9.990 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r/B

.000 .4837 .5121 .4374 .5535 .6865 .6991
 .334 .5397 .4785 .5756 .7072 .7600 .6922
 .520 .2164 .4228 .4834 .3025 .7773 .7370
 .663 .4754 .3376 .2848 .3772 .2292 .6648
 .873 .3208 -.0849 -.1201 -.0441 -.0680 -.3319

MACH (1) = .165 ALPHA (2) = 14.970 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r/B

.000 .3431 .5447 .4704 .5761 .7476 .7804
 .334 .5627 .4841 .5749 .7228 .7603 .7137
 .520 -.1155 .3094 .3769 .3621 .7643 .6151
 .663 .1045 .2106 .2372 -.0825 .3919 .6724
 .873 .4123 .1510 .0230 -.0071 -.0327 -.4565

MACH (1) = .165 ALPHA (3) = 19.980 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r/B

.000 .6107 .5968 .5192 .6202 .7739 .9081
 .334 .6091 .5483 .6123 .7431 .7760 .7177
 .520 -.1116 .3215 .4462 .4884 .7376 .5338
 .663 -.0194 .2745 .3259 .2203 .3936 .5031
 .873 .4679 .2731 .1690 .1101 .0116 -.3694

REFERENCE DATA

XREF = 4.4120 82.FT. XWAP = 43.5940 IN.
 LREF = 19.2300 IN. LWAP = .0000 IN.
 BREF = 37.9350 IN. BWAP = -.4050 IN.
 SCALE = .0405

MACH (1) = .165 ALPHA (1) = 10.005 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/B					
.000	.4722	.5115	.3940	.5254	.5288 .2901
.334	.5217	.4208	.4308	.5836	.5400 .5178
.520	.2073	.3842	.3976	.3337	.5463 .4116
.663	.5379	.4081	.1788	.2198	.2684 .3181
.873	.3041	-.0198	-.1505	-.3385	-.3296 -.4931

MACH (1) = .165 ALPHA (2) = 14.990 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/B					
.000	.5300	.5341	.4523	.5446	.5458 .3767
.334	.5453	.4489	.4378	.5854	.5667 .5485
.520	-.0002	.2667	.3930	.4004	.5358 .3750
.663	.1435	.2390	.2866	.2735	.2628 .2969
.873	.4017	.1312	-.0509	-.0362	-.1766 -.4483

MACH (1) = .165 ALPHA (3) = 20.015 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/B					
.000	.5944	.5972	.5133	.5919	.6266 .4784
.334	.5937	.5206	.5018	.6309	.6065 .5761
.520	-.0615	.3815	.5219	.4606	.5674 .3533
.663	.0888	.4179	.4271	.3475	.2812 .2311
.873	.4539	.1367	.0377	.0792	-.0202 -.3306



DATE 08 OCT 74 TABULATED SOURCE DATA - CA57B

(RDVL34)

CA57-B 818C5F1 J40 WATE18 WING LOWER SURFACE
MACH (1) = .165 ALPHA (4) = 9.995 RN/L = 1.200 MACH = .165

DEPENDENT VARIABLE CP

SECTION (1) WING

X/C .1500 .3000 .4500 .6000 .7500 .9000

Zt/B
.000 .3137 -.0193 -.1839 .0606 .0707 -.0046
.334 .2347 .0576 .0568 .2290 .2289 .0767
.520 -.0323 .2871 .1992 .1152 .3093 .0539
.663 .4204 .4258 .3237 .2692 .4970 .3047
.873 .5038 .2154 .1861 .1817 .1800 -.1064

MACH (1) = .165 ALPHA (5) = 14.975 RN/L = 1.200 MACH = .165

DEPENDENT VARIABLE CP

SECTION (1) WING

X/C .1500 .3000 .4500 .6000 .7500 .9000

Zt/B
.000 .3953 .1132 -.0748 .1447 .1345 .0079
.334 .3330 .1954 .1244 .2966 .2873 .1192
.520 .0230 .2289 .2100 .1019 .3075 .0883
.663 .5063 .5382 .4347 .3536 .5302 .2833
.873 .4944 .3210 .2398 .2483 .2674 -.1180

MACH (1) = .165 ALPHA (6) = 19.990 RN/L = 1.200 MACH = .165

DEPENDENT VARIABLE CP

SECTION (1) WING

X/C .1500 .3000 .4500 .6000 .7500 .9000

Zt/B
.000 .4830 .2363 .0411 .2282 .1762 .0134
.334 .4343 .3324 .2707 .3316 .3015 .1237
.520 .0997 .1639 -.0754 .1090 .3756 .0889
.663 .7101 .6233 .4582 .3646 .5457 .1186
.873 .5521 .3935 .3612 .2929 .2297 -.1571

REFERENCE DATA

WREF = 4.4120 83.FT. WREF = 43.5940 IN.
LREF = 19.2300 IN. WREF = .0000 IN.
WREF = 3.9330 IN. WREF = -.4050 IN.
SCALE = .0403

MACH (1) = .165 ALPHA (1) = -3.995 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B
.000 .0634 -.4508 -.4564 -.1925 -.0793 -.0751
.334 -.2316 -.4167 -.2381 -.0350 .0095 -.0455
.520 -.3122 -.1015 -.0903 -.0300 .1722 .0531
.663 -.2036 .0045 -.0151 .0010 .2120 .0805
.873 .1310 -.0614 -.0796 .0593 .0890 -.0395

MACH (1) = .165 ALPHA (2) = -.020 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B
.000 .1408 -.3060 -.3619 -.1209 -.0303 -.0544
.334 -.0786 -.2500 -.1632 .0513 .0828 -.0045
.520 -.2904 -.0476 -.0043 .0481 .2124 .0550
.663 .0174 .1551 .0946 .0778 .3062 .1333
.873 .3251 .0496 .0120 .1031 .1259 -.0494

MACH (1) = .165 ALPHA (3) = 4.980 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B
.000 .2330 -.1251 -.2262 -.0057 .0395 -.0164
.334 .1241 -.0511 -.0130 .1593 .1492 .0188
.520 -.1261 .1404 .1558 .0647 .2612 -.0061
.663 .2979 .3440 .2248 .1651 .3924 .1868
.873 .4472 .1401 .1030 .1494 .1528 -.0677

PARAMETRIC DATA

BETA = .000 PTN/P = 1.300
H/B = .286 BOFLAP = -18.000
ELEVON = 15.000

(R0NL35)

CASH-B B16C5F1 J40 W07E10 W11 LOWER SURFACE

MACH (1) = .165 ALPHA (4) = 9.885 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000	.3040	-.0021	-.1370	.0762	.0814	-.0089
.334	.2335	.0930	.0742	.2264	.2037	.0647
.520	.0010	.2994	.2029	.1037	.2508	.0081
.663	.4464	.4474	.3068	.2173	.4319	.1643
.873	.4929	.2002	.1605	.1500	.1536	-.1338

MACH (1) = .165 ALPHA (5) = 14.970 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000	.4002	.1535	-.0246	.1760	.1538	.0416
.334	.3462	.2122	.1605	.3028	.2649	.1151
.520	-.1290	.2127	.1818	.1410	.2960	.0763
.663	.4782	.5840	.4317	.3042	.4652	.1132
.873	.5028	.3133	.2401	.2479	.2014	-.1417

MACH (1) = .165 ALPHA (6) = 19.980 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000	.4833	.2765	.0722	.2462	.1842	.0279
.334	.4428	.3549	.2891	.3282	.2619	.0876
.520	.2191	.1766	-.0177	.1157	.3014	.0259
.663	.7507	.6100	.3807	.2674	.3901	-.1308
.873	.5465	.3993	.2987	.2883	.2228	-.1598

DATE 08 OCT 74

TABULATED SOURCE DATA - CA37B

PAGE 37

CA37-B B18C3F1 J41 WATE18 WING LOWER SURFACE (RDVL32) (12 NOV 73)

REFERENCE DATA

REF = 4.4120 84. FT. WAMP = 43.5940 IN.
 LREF = 19.2300 IN. WAMP = .0000 IN.
 REF = 37.9330 IN. WAMP = -.4050 IN.
 SCALE = .0403

PARAMETRIC DATA

BETA = .000 PTN/P = 1.300
 H/B = .286 BDFLAP = -16.000
 ELEVON = .000

MACH (1) = .165 ALPHA (1) = -4.005 RN/L = 1.200 MACH = .165
 SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/H

.000 .0566 -.4364 -.6083 -.2980 -.2239 -.0322
 .334 -.3005 -.4743 -.3279 -.3789 -.2567 -.1294
 .520 -.3783 -.2383 -.1171 -.2473 -.2190 -.1283
 .643 -.3377 -.0669 -.1907 -.2082 -.3520 -.1414
 .873 -.2975 -.2393 -.3500 -.3474 -.3633 -.1777

MACH (1) = .165 ALPHA (2) = -.005 RN/L = 1.200 MACH = .165
 SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/H

.000 .1221 -.2934 -.5066 -.2123 -.1754 -.0233
 .334 -.1332 -.3222 -.2365 -.3101 -.2281 -.1035
 .520 -.3502 -.1322 -.0473 -.1910 -.1806 -.0840
 .643 -.0822 .0879 -.0781 -.1296 -.3369 -.0990
 .873 -.0570 -.1019 -.2436 -.2799 -.3543 -.1537

MACH (1) = .165 ALPHA (3) = 4.995 RN/L = 1.200 MACH = .165
 SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/H

.000 .2070 -.1237 -.3740 -.1012 -.1063 .0075
 .334 .0710 -.1165 -.1124 -.2162 -.1619 -.0762
 .520 -.0870 .1004 .0861 -.0988 -.1587 -.0659
 .643 .1746 .3086 .0676 -.0087 -.3053 -.1076
 .873 .1525 .0343 -.1355 -.2055 -.3144 -.1762

DATE 08 OCT 74 TABULATED SOURCE DATA - CAS78

(RDVL32)

CAS7-B 816CSF1 J41 WATE18 WING LOWER SURFACE
MACH (1) = .165 ALPHA (4) = 8.990 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/H
.000 .2962 .0216 -.2538 -.0022 -.0372 .0617
.334 .2036 .0435 .0166 -.1370 -.1004 -.0449
.520 .0432 .3461 .2004 -.0726 -.1221 -.1068
.663 .3362 .4127 .1678 .0857 -.2314 -.0944
.873 .2638 .1208 -.0285 -.1366 -.2961 -.2144

MACH (1) = .165 ALPHA (5) = 14.990 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/H
.000 .3668 .1546 -.1572 .0946 .0237 .0976
.334 .3070 .1636 .1425 -.0634 -.0418 -.0371
.520 .0296 .2912 .2402 -.0323 -.0992 -.0760
.663 .3963 .4193 .2092 .1756 -.1928 -.1372
.873 .3643 .2070 .0715 -.0421 -.2480 -.2644

MACH (1) = .165 ALPHA (6) = 19.990 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/H
.000 .4583 .2946 -.0517 .1843 .0744 .1296
.334 .4154 .2828 .2515 .0941 .0106 -.0458
.520 .0273 .2468 .2372 .0663 -.1205 -.1207
.663 .4896 .5503 .3377 .2220 -.2283 -.3198
.873 .4670 .3021 .1668 .0265 -.2345 -.3698

REFERENCE DATA PARAMETRIC DATA

SREF = 4.4120 82.FT. XMRP = 43.5940 IN. BETA = .000 PTN/P = 1.000
 LREF = 19.2300 IN. YMRP = .0000 IN. M/B = .266 BDFLAP = -16.000
 BREF = 37.9350 IN. ZMRP = -.4050 IN. ELEVON = .000
 SCALE = .0405

MACH (1) = .165 ALPHA (1) = -4.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

21/B
 .000 .0611 -.4060 -.4920 -.2368 -.2023 -.1248
 .334 -.2701 -.4353 -.2863 -.2701 -.1874 -.1125
 .520 -.5494 -.2145 -.0801 -.1947 -.1770 -.1075
 .663 -.3044 -.0311 -.1605 -.1670 -.3058 -.1206
 .873 -.2702 -.2267 -.3357 -.3371 -.3740 -.1746

MACH (1) = .165 ALPHA (2) = -.005 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

21/B
 .000 .1277 -.2768 -.4011 -.1582 -.1660 -.0866
 .334 -.1065 -.2873 -.1970 -.2697 -.1504 -.0866
 .520 -.3013 -.0907 -.0365 -.1399 -.1343 -.0723
 .663 -.0721 .1246 -.0548 -.1024 -.2908 -.1032
 .873 -.0357 -.0992 -.2333 -.2812 -.3565 -.1607

MACH (1) = .165 ALPHA (3) = 4.985 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

21/B
 .000 .2017 -.1222 -.2071 -.0692 -.1081 -.0516
 .334 .0764 -.0987 -.0883 -.2248 -.1076 -.0770
 .520 -.0762 .1144 .1086 -.0870 -.1554 -.0802
 .663 .1727 .3198 .0855 .0180 -.2720 -.0963
 .873 .1523 .0276 -.1428 -.2106 -.3371 -.1901

DATE 08 OCT 74 TABULATED SOURCE DATA - QAS7B

(RDVL33)

QAS7-B B16C3F1 J41 WATE10 WING LOWER SURFACE

MACH (1) = .165 ALPHA (4) = 9.980 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z1/B						
.000	.2854	.0278	-.1693	.0273	-.0371	.0048
.334	.2095	.0496	.0502	-.0173	-.0628	-.0498
.520	.0652	.3626	.1980	-.0121	-.1218	-.0778
.663	.3661	.4366	.2148	.1309	-.1862	-.0579
.873	.2618	.1240	-.0267	-.1376	-.2967	-.2210

MACH (1) = .165 ALPHA (5) = 14.985 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z1/B						
.000	.3669	.1572	-.0664	.1146	.0263	.0643
.334	.3163	.1745	.1489	.0598	-.0101	-.0417
.520	.1543	.2924	.2146	.0730	-.0916	-.0586
.663	.5475	.5384	.3186	.2550	-.1142	-.0665
.873	.3975	.2190	.0637	-.0211	-.2443	-.2655

MACH (1) = .165 ALPHA (6) = 19.980 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z1/B						
.000	.4479	.2755	-.0095	.1839	.0655	.0918
.334	.4058	.2794	.2438	.0956	.0111	-.0700
.520	.1163	.1960	.1886	.0648	-.1326	-.1344
.663	.5192	.5256	.3804	.2882	-.1292	-.2080
.873	.4554	.2946	.1451	.0145	-.2684	-.4011



DATE 08 OCT 74

TABULATED SOURCE DATA - QAS7B

PAGE 101

QAS7-B B16C5F1 J41 WATE18 WING LOWER SURFACE

(RDVL55) (12 NOV 73)

REFERENCE DATA

SREF = 4.4120 84.FT. XMRP = 43.5940 IN.
 LREF = 19.2300 IN. (MRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.300
 M/B = .039 BOFLAP = -18.000
 ELEVON = .000

MACH (1) = .165 ALPHA (1) = 9.990 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 .4808 .4688 .2695 .4550 .3631 .4560
 .334 .4972 .4681 .5191 .3405 .3235 .1806
 .520 .2378 .3773 .3411 .1948 .2536 .0206
 .663 .2964 .3597 .0480 .0589 -.1925 -.0414
 .873 .1354 -.0616 -.2499 -.3675 -.5584 -.4293

MACH (1) = .165 ALPHA (2) = 14.990 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 .5261 .5103 .3575 .5144 .5487 .6221
 .334 .5354 .5083 .5708 .4115 .4729 .3284
 .520 .0635 .2356 .3505 .1779 .2957 .1219
 .663 .3794 .3070 .0852 .0646 -.0590 .0194
 .873 .3255 .1343 -.0246 -.0826 -.4077 -.4136

MACH (1) = .165 ALPHA (3) = 19.995 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 .5737 .5660 .4244 .5572 .6204 .7702
 .334 .5741 .5349 .6134 .4865 .5377 .3928
 .520 -.1634 .2330 .4192 .1809 .3231 .1416
 .663 -.0545 .2098 .1466 .1209 -.1279 -.1462
 .873 .5824 .2467 .0893 -.0231 -.3593 -.4722

QMS7-B B16C5F1 J41 W87E18 WING LOWER SURFACE (R0VL56) (12 NOV 73)

REFERENCE DATA

BREF = 4.4120 84.FT. XMRP = 43.5940 IN.
 LAEF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

MACH (1) = .165 ALPHA (1) = 10.005 RN/L = 1.200 MACH = .165
 SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 .4737 .4801 .2664 .3941 .2147 .1451
 .334 .4858 .4451 .4831 .2267 .1645 .0944
 .520 .2557 .3922 .3212 .1393 .2335 .0449
 .663 .3786 .4021 .0482 -.0278 -.1685 -.0588
 .875 .1669 -.0369 -.1859 -.2663 -.5156 -.4433

MACH (1) = .165 ALPHA (2) = 15.020 RN/L = 1.200 MACH = .165
 SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 .5114 .4964 .3630 .4656 .3760 .3353
 .334 .5165 .4818 .5350 .5134 .2893 .2042
 .520 .1092 .2395 .3569 .1981 .3538 .0823
 .663 .4315 .3261 .1310 .1228 -.0349 .0012
 .875 .3410 .1611 .0048 -.0373 -.3572 -.4059

MACH (1) = .165 ALPHA (3) = 20.015 RN/L = 1.200 MACH = .165
 SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 .5755 .5623 .4332 .5329 .4935 .4718
 .334 .5733 .5257 .5822 .5825 .5906 .2479
 .520 -.1541 .2772 .4317 .2837 .3694 .0378
 .663 -.0196 .2762 .2295 .1939 -.0338 -.0971
 .875 .4067 .2686 .1069 -.0232 -.3275 -.4423

PARAMETRIC DATA

BETA = .000 PTN/P = 1.000
 H/B = .039 BOFLAP = -18.000
 ELEVON = .000

REFERENCE DATA PARAMETRIC DATA

BREF = 4.4120 84.FT. XMRP = 43.5940 IN. BETA = .000 PTN/P = 1.300
 LREF = 19.2300 IN. IMRP = .0000 IN. M/B = .125 BDFLAP = -18.000
 BREF = 37.9350 IN. ZMRP = -.4050 IN. ELEVON = .000
 SCALE = .0405

MACH (1) = .165 ALPHA (1) = -3.980 RN/L = 1.200 MACH = .165

SECTION (1) WING		DEPENDENT VARIABLE CP	
X/C			
Z1/B			
.000	.0273	-.7682	-.9128
.334	-.4865	-.7733	-.5560
.520	-.7388	-.3190	-.2820
.663	-.4321	-.1223	-.3065
.873	-.3948	-.3189	-.4485

MACH (1) = .165 ALPHA (2) = -.005 RN/L = 1.200 MACH = .165

SECTION (1) WING		DEPENDENT VARIABLE CP	
X/C			
Z1/B			
.000	.1492	-.3324	-.6082
.334	-.1202	-.3552	-.2980
.520	-.3713	-.1589	-.0999
.663	-.1159	.0980	-.1125
.873	-.0717	-.1338	-.2858

MACH (1) = .165 ALPHA (3) = 4.980 RN/L = 1.200 MACH = .165

SECTION (1) WING		DEPENDENT VARIABLE CP	
X/C			
Z1/B			
.000	.2539	-.0451	-.3350
.334	.1380	-.0479	-.0558
.520	-.0435	.1395	.1101
.663	.1885	.3219	.0712
.873	.1337	.0056	-.1669

(RDVL37)

CAST8-B B16C5F1 J41 WOTE10 WING LOWER SURFACE

MACH (1) = .165 ALPHA (4) = 9.995 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B	.000	.3454	.1405	-.1368	.0978	.0124	.1701
.334	.2888	.1508	.1453	.0132	-.0225	-.0217	
.520	.1398	.3755	.2366	-.0651	-.0777	-.0657	
.663	.3478	.4245	.1694	.0969	-.2642	-.1723	
.873	.2760	.1067	-.0423	-.1453	-.3160	-.2474	

MACH (1) = .165 ALPHA (5) = 15.020 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B	.000	.4260	.2766	-.0125	.2159	.1374	.2503
.334	.3856	.2590	.2862	.1728	.1061	.0400	
.520	-.1358	.1454	.2778	.1246	.0297	-.0367	
.663	.2223	.4144	.1733	.0563	-.3236	-.1836	
.873	.3876	.2201	.0795	-.0051	-.2690	-.3021	

MACH (1) = .165 ALPHA (6) = 19.995 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B	.000	.5069	.3960	.1174	.3156	.2156	.3394
.334	.4834	.3960	.3916	.1960	.1721	.0514	
.520	.0825	.3865	.3318	.1348	.0017	-.1640	
.663	.4372	.5417	.3283	.1319	-.3668	-.4680	
.873	.4492	.3115	.1333	.0615	-.2567	-.3982	

REFERENCE DATA PARAMETRIC DATA

BREF = 4.4120 82.FT. XMRP = 43.5940 IN. BETA = .000 PTN/P = 1.000
 LREF = 19.2300 IN. YMRP = .0000 IN. H/B = .125 BDFLAP = -10.000
 BREF = 37.9350 IN. ZMRP = -.4030 IN. ELEVON = .000
 SCALE = .0405

MACH (1) = .165 ALPHA (1) = -3.995 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z1/B						
.000	.0546	-.6458	-.6737	-.4136	-.3546	-.2025
.334	-.3635	-.6644	-.6098	-.4902	-.3431	-.1966
.520	-.5632	-.2335	-.1901	-.2977	-.2572	-.1991
.663	-.3323	-.0629	-.2285	-.2191	-.3598	-.1784
.873	-.3074	-.2694	-.3930	-.3618	-.4273	-.2145

MACH (1) = .165 ALPHA (2) = -.005 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z1/B						
.000	.1572	-.2851	-.4700	-.2102	-.2580	-.1129
.334	-.0828	-.2904	-.3074	-.3894	-.2447	-.1406
.520	-.2860	-.1253	-.0751	-.1604	-.1850	-.1120
.663	-.0765	.1248	-.0845	-.1105	-.3271	-.134
.873	-.0366	-.1217	-.2665	-.3002	-.3687	-.185

MACH (1) = .165 ALPHA (3) = 4.995 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z1/B						
.000	.2622	-.0160	-.2338	-.0246	-.1282	-.0113
.334	.1699	-.0099	-.0550	-.2111	-.1449	-.0983
.520	-.0080	.1728	.1299	-.0566	-.1338	-.0916
.663	.2167	.3451	.0984	.0472	-.2778	-.1119
.873	.1665	.0154	-.1334	-.2095	-.3465	-.2031

DATE 08 OCT 74 TABULATED SOURCE DATA - QAS7B

(8DVL59) (12 NOV 73)

QAS7-B 816C5F1 J42 W07E18 WING LOWER SURFACE

PARAMETRIC DATA

BETA = .000 PTN/P = 1.500
H/B = .125 BDFLAP = -18.000
ELEVON = .000

REFERENCE DATA

WREF = 4.4120 82.FT. ZMRP = 43.5940 IN.
LREF = 19.2300 IN. ZMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

MACH (1) = .165 ALPHA (1) = -4.025 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B
.000 .0140 -.7233 -.8532 -.4722 -.3613 -.2550
.334 -.3982 -.4260 -.4736 -.4535 -.3363 -.2060
.520 -.5062 -.4114 -.3487 -.4039 -.4520 -.2007
.663 -.4556 -.3516 -.4498 -.3916 -.4820 -.2298
.875 -.3755 -.2941 -.4266 -.4735 -.4467 -.2351

MACH (1) = .165 ALPHA (2) = -.010 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B
.000 .0999 -.3423 -.5997 -.2822 -.2936 -.2634
.334 -.1303 -.1606 -.2507 -.2842 -.2540 -.1908
.520 -.2345 -.1483 -.1438 -.2377 -.3604 -.1367
.663 -.1268 -.1265 -.2502 -.2326 -.3863 -.1740
.875 -.0376 -.1305 -.2821 -.3597 -.4017 -.1928

MACH (1) = .165 ALPHA (3) = 4.955 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B
.000 .1910 -.0866 -.3753 -.1007 -.1530 -.2054
.334 .1703 .0423 -.0433 -.1072 -.1372 -.1169
.520 -.0556 .0727 .0293 -.0749 -.2275 -.0877
.663 .1103 .0511 .0375 -.0735 -.2482 -.1099
.875 .1163 -.0478 -.1727 -.2633 -.3657 -.2202

DATE 06 OCT 74

TABULATED SOURCE DATA - QAS7B

PAGE 107

QAS7-B 816CSF1 J42 WOTE18 WING LOWER SURFACE
 MACH (1) = .185 ALPHA (4) = 9.935 RN/L = 1.200 MACH = .185

(ADVL58)

SECTION (1) WING DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z1/B						
.000	.2779	.1185	-.1821	.0604	.0089	-.0725
.334	.2107	.2167	.1393	.0654	.0287	.0085
.520	.1608	.2415	.2026	.0949	-.0332	.0299
.663	.2980	.2025	.0915	.0953	-.1323	-.0240
.873	.2646	.0890	-.0448	-.1369	-.3116	-.2335

MACH (1) = .165 ALPHA (5) = 14.980 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z1/B						
.000	.3719	.2517	-.0157	.1824	.1106	.0365
.334	.3160	.3131	.2484	.1970	.1080	.0501
.520	.3104	.3409	.3165	.1976	.0255	.0228
.663	.3751	.3291	.1287	.1511	-.0547	-.0488
.873	.3302	.1778	.0134	-.0636	-.3265	-.3692

MACH (1) = .185 ALPHA (6) = 19.975 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z1/B						
.000	.4556	.3620	.0997	.2841	.2037	.0966
.334	.3899	.3959	.3351	.2875	.1975	.0354
.520	.4229	.4222	.4031	.2730	.1135	.0242
.663	.3971	.3920	.2368	.2016	-.0143	-.0377
.873	.3104	.2126	.0882	-.0205	-.3154	-.4689

QAS7-B B16C5F1 J42 WOTE16 WING LOWER SURFACE

(RDVL60) (12 NOV 73)

REFERENCE DATA

SREF = 4.4180 84.FT. XMRP = 43.5940 IN.
 LREF = 18.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA =
 K/B =
 ELEVON =
 PTN/P = 1.300
 BDFLAP = -18.000
 .000
 .125
 .000

MACH (1) = .165 ALPHA (1) = -4.010 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 .0236 -.0763 -.7536 -.4224 -.3274 -.2497
 .334 -.3589 -.3827 -.4358 -.4070 -.3042 -.2020
 .520 -.4650 -.3645 -.3114 -.3677 -.4392 -.1734
 .663 -.4186 -.3299 -.4326 -.3550 -.4553 -.2200
 .873 -.3432 -.2816 -.4050 -.4531 -.4350 -.2257

MACH (1) = .165 ALPHA (2) = -.010 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 .1091 -.3166 -.5228 -.2356 -.2583 -.2463
 .334 -.1040 -.1359 -.2177 -.2429 -.2341 -.1933
 .520 -.2096 -.1231 -.1183 -.2176 -.3463 -.1279
 .663 -.1071 -.1115 -.2416 -.2083 -.3612 -.1692
 .873 -.0425 -.1236 -.2695 -.3506 -.3959 -.1695

MACH (1) = .165 ALPHA (3) = 4.965 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 .2009 -.0607 -.3047 -.0561 -.1195 -.1792
 .334 .0906 .0737 -.0160 -.0829 -.0996 -.1106
 .520 -.0311 .0931 .0534 -.0580 -.2165 -.0840
 .663 .1262 .0674 -.0519 -.0344 -.2449 -.1087
 .873 .1263 -.0347 -.1581 -.2562 -.3555 -.2122

DATE 08 OCT 74 TABULATED SOURCE DATA - CA37B

(RDVL60)

CA37-B B16C3F1 J42 WOTE18 WING LOWER SURFACE

MACH (1) = .165 ALPHA (4) = 9.960 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/B

.000 .2829 .1047 -.1308 .0854 .0079 -.0556
 .334 .2187 .2177 .1320 .0775 .0220 -.0221
 .520 .1634 .2367 .1925 .0906 -.0699 -.0250
 .663 .2907 .2016 .0630 .0834 -.1318 -.0519
 .873 .2503 .0873 -.0495 -.1586 -.3068 -.2319

MACH (1) = .165 ALPHA (5) = 14.960 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/B

.000 .3631 .2519 .0090 .1972 .1267 .0489
 .334 .3037 .3216 .2506 .1861 .1250 .0458
 .520 .2957 .3366 .3141 .1774 .0212 .0024
 .663 .3562 .3191 .1075 .1402 -.0608 -.0722
 .873 .3175 .1679 .0065 -.0561 -.3140 -.3214

MACH (1) = .165 ALPHA (6) = 19.960 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/B

.000 .4640 .3678 .1245 .3011 .2106 .1502
 .334 .3957 .4069 .3465 .2828 .1890 .0784
 .520 .4262 .4213 .4073 .2558 .0839 -.0185
 .663 .4175 .3917 .2262 .1881 -.0338 -.0877
 .873 .3214 .2124 .0826 -.0212 -.3193 -.4245

REFERENCE DATA

BREF = 4.4120 94.FT. XMRP = 43.5940 IN.
 LREF = 19.2300 IN. IMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.000
 H/B = .175 BOFLAP = -16.000
 ELEVON = .000

MACH (1) = .165 ALPHA (1) = -4.030 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r/B

.000 .0345 -.0041 -.3692 -.3609 -.3334 -.2609
 .334 -.3176 -.3253 -.4200 -.3735 -.2651 -.3166
 .520 -.4409 -.3641 -.2591 -.3610 -.4335 -.1778
 .663 -.4037 -.3087 -.4350 -.3483 -.4456 -.2288
 .873 -.3322 -.2743 -.3964 -.4568 -.4285 -.2276

MACH (1) = .165 ALPHA (2) = -.025 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r/B

.000 .1116 -.2942 -.4345 -.2003 -.2621 -.2647
 .334 -.3900 -.1042 -.2190 -.2351 -.1976 -.3598
 .520 -.2045 -.1180 -.1094 -.2228 -.3532 -.1544
 .663 -.1075 -.1096 -.2527 -.2079 -.3634 -.1855
 .873 -.0468 -.1300 -.2752 -.3646 -.3999 -.2022

MACH (1) = .165 ALPHA (3) = 4.980 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r/B

.000 .9105 -.0529 -.2353 -.0237 -.1278 -.1982
 .334 .1578 .0895 -.0192 -.0699 -.0791 -.3432
 .520 -.0076 .0999 .0599 -.0453 -.2160 -.1078
 .663 .1325 .0768 -.0614 -.0461 -.2532 -.1207
 .873 .1253 -.0322 -.1569 -.2643 -.3560 -.2089

DATE 08 OCT 74

LABORATORY SOURCE DATA - LASTB

(PROV 611)

LASTB R16/5F1 142 W07E10 WING LOWER SURFACE

MACH (1) = .165 ALPHA (4) = 9.965 H/W = 1.200 MACH = .165

SECTION 11 WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 9.000

Z/B .000 .2876 .1172 -.0731 .0019 .0028 -.0635

.334 .2162 .2249 .1318 .0621 .0396 -.2328

.320 .1549 .2259 .1992 .0628 -.1024 -.0730

.663 .2756 .1885 .0366 .0621 -.1716 -.0588

.872 .2457 .0627 -.0616 -.1726 -.3269 -.2321

MACH (1) = .165 ALPHA (5) = 14.965 H/W = 1.200 MACH = .165

SECTION 11 WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 9.000

Z/B .000 .3698 .2474 .0410 .2735 .1779 .70

.334 .3193 .3163 .2441 .1815 .1146 .2554

.520 .2942 .3260 .3117 .1540 .0217 -.1134

.663 .3357 .3084 .2474 .1220 .0474 .1938

.872 .3255 .1628 .0775 .0111 .0111 .0111

MACH (1) = .165 ALPHA (5) = 19.975 H/W = 1.200 MACH = .165

SECTION 11 WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 9.000

Z/B .000 .4572 .3014 .1440 .0884 .0417 .0111

.334 .3497 .3491 .3147 .1474 .1106 .1111

.520 .4176 .4197 .4551 .3110 .3492 .0111

.663 .4245 .3764 .2819 .1171 .0481 .0111

.872 .3371 .2071 .0573 .0121 .0111 .0111

CAS7-B B16C5F1 J42 W07E10 WING LOWER SURFACE

(RDVL62) (12 NOV 73)

REFERENCE DATA

REF = 4.4120 82.FT. SWRP = 43.5940 IN.
 LREF = 10.2500 IN. RMFP = .0000 IN.
 BREF = 37.0350 IN. ZWFP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 P.M/P = 1.500
 H/B = .039 BOFLAP = -10.000
 ELEVON = .000

MACH (1) = .165 ALPHA (1) = 10.000 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/H/B

.000 .3640 .3374 .1169 .2895 .3039 .4357
 .334 .3082 .3255 .3170 .3400 .2711 .0637
 .520 .2534 .3092 .2866 .2352 .0853 .0485
 .663 .2899 .2427 .1097 .0060 -.0984 -.0118
 .873 .1528 -.0503 -.2079 -.2450 -.4433 -.3481

MACH (1) = .165 ALPHA (2) = 14.940 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/H/B

.000 .4450 .2383 .3108 .4120 -.1389 -.0245
 .334 .4548 .4288 .0579 .4122 .5118 -.4364
 .520 .4112 .4347 .2567 .4346 .3868 .5690
 .663 .4134 16.3158 .4278 .5517 12.3764 -.0310
 .873 .3483 10.2923 .4050 .2178 11.9650 .1130

MACH (1) = .165 ALPHA (3) = 19.995 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/H/B

.000 .5285 .5148 .3589 .4953 .5948 .7390
 .334 .4723 .5102 .5102 .5065 .4887 -.1644
 .520 .5224 .4924 .4801 .4042 .3477 .1702
 .663 .3258 .4086 .2962 .2844 .0337 .0491
 .873 .2509 .0289 .0191 -.0194 -.3927 -.5227

DATE 09 OCT 74

TABULATED SOURCE DATA - 0A37B

PAGE 113

0A37-B B16C5F1 J42 WATE10 WING LOWER SURFACE

(RDVL83) (12 NOV 73)

REFERENCE DATA

BREF = 4.4120 84.1 FT. X/RP = 43.5940 IN.
 LBREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9330 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.350
 M/B = .039 BDFLAF = -18.600
 ELEVON = .000

MACH (1) = .155 ALPHA (1) = 9.995 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z/B						
.000	.3760	.3473	.1379	.3018	.2764	.2259
.334	.3166	.3366	.3147	.3112	.2167	.0612
.520	.2670	.3132	.2859	.2346	.0688	.0231
.663	.3033	.2446	.1079	.1145	-.1113	-.0370
.873	.1665	-.0442	-.1943	-.2328	-.4276	-.3064

MACH (1) = .165 ALPHA (2) = 14.985 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE E CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z/B						
.000	.4530	.4327	.2408	.4203	.4651	.4094
.334	.4089	.4379	.4272	.4162	.3582	-.0731
.520	.4138	.4148	.3989	.3310	.2229	.0682
.663	.3455	.3403	.2176	.2106	-.0302	-.0291
.873	.2456	.0627	-.0597	-.1365	-.4082	-.4266

MACH (1) = .165 ALPHA (3) = 20.000 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z/B						
.000	.5245	.5107	.3661	.4956	.5627	.6085
.334	.4707	.5093	.5019	.4904	.4357	-.1321
.520	.5217	.4865	.4711	.3813	.3034	.0867
.663	.3648	.4072	.2794	.2670	.0127	-.0127
.873	.2486	.0415	.0273	-.0592	-.3753	-.4562

CA57-B 816C5F1 J42 WTE10 WING LOWER SURFACE

(80VL84) (12 NOV 73)

REFERENCE DATA

SREF = 4.4120 83.FT. XMRP = 43.5940 IN.
 LREF = 18.2300 IN. YMRP = .0000 IN.
 BREF = 37.8350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.000
 M/B = .039 BOFLAP = -.18.000
 ELEVON = .000

MACH (1) = .165 ALPHA (1) = 10.000 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/B

.000 .3765 .3602 .1831 .3111 .1334 .0629
 .334 .3176 .3353 .3054 .2729 .1637 .0300
 .520 .2693 .3047 .2754 .2162 .0305 -.0156
 .663 .3137 .2445 .0878 .1134 -.1233 -.0795
 .873 .1831 -.0293 -.1980 -.2182 -.3662 -.2798

MACH (1) = .165 ALPHA (2) = 15.010 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/B

.000 .4602 .4414 .3222 .4374 .3482 .2175
 .334 .4119 .4332 .4152 .3800 .2999 -.0887
 .520 .4148 .4083 .2833 .3145 .1674 .0093
 .663 .3234 .3435 .2034 .2039 -.0513 -.0749
 .873 .2518 .0773 -.0374 -.1357 -.3986 -.3800

MACH (1) = .165 ALPHA (3) = 19.990 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/B

.000 .5305 .5209 .4116 .5143 .4722 .3480
 .334 .4806 .5106 .4901 .4514 .3784 -.2022
 .520 .5247 .4822 .4606 .3618 .2469 -.0031
 .663 .4061 .4033 .2629 .2533 -.0213 -.1007
 .873 .2437 .0590 .0193 -.0969 -.4019 -.4177

CM57-B B16C5F1 J42 WOTE18 WING LOWER SURFACE

(RDVL68) (12 NOV 73)

REFERENCE DATA

BREF = 4.4120 83.FT. XMRP = 43.9940 IN.
 LREF = 19.2300 IN. (MRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.500
 M/B = .286 BDFLAP = -18.000
 ELEVON = .000

MACH (1) = .165 ALPHA (1) = -4.050 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r/B

.000 .0280 -.4253 -.5720 -.2909 -.2042 -.1918
 .334 -.2480 -.2090 -.3036 -.3067 -.2179 -.1312
 .520 -.3601 -.2590 -.2327 -.2514 -.3246 -.1053
 .663 -.3173 -.2102 -.4630 -.2577 -.3627 -.1555
 .873 -.2561 -.2113 -.3149 -.3597 -.3506 -.1747

MACH (1) = .165 ALPHA (2) = .010 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r/B

.000 .0920 -.2985 -.4934 -.2050 -.1760 -.2009
 .334 -.1047 -.0830 -.2072 -.2429 -.1824 -.1616
 .520 -.2051 -.1208 -.1260 -.1830 -.2932 -.1066
 .663 -.1061 -.0788 -.3904 -.1821 -.3268 -.1364
 .873 -.0321 -.0903 -.2286 -.2878 -.3229 -.1720

MACH (1) = .165 ALPHA (3) = 5.000 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r/B

.000 .1626 -.1448 -.3815 -.1005 -.1143 -.1609
 .334 .0470 .0540 -.0725 -.1477 -.1200 -.1154
 .520 -.0641 .0515 .0089 -.0706 -.2228 -.0943
 .663 .1043 .0706 -.2862 -.0722 -.2511 -.1134
 .873 .1323 -.0648 -.1280 -.2082 -.2992 -.1975

(RDVL66)

MACH (1) = .165 ALPHA (4) = 9.980 RN/L = 1.200 MACH = .165
 QAS7-B B16CSF1 J42 WOTE18 WING LOWER SURFACE

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z/B						
.000	.2448	.0079	-.2570	.0032	-.0328	-.1017
.334	.1741	.1875	.0679	-.0369	-.0194	-.0297
.520	.0966	.1950	.1414	.0504	-.1049	.0076
.663	.2745	.2051	-.1658	.0424	.1367	-.0360
.873	.2546	.0922	-.0304	-.1291	-.2594	-.1989

MACH (1) = .165 ALPHA (5) = 15.010 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z/B						
.000	.3149	.1340	-.1573	.0811	.0212	-.0440
.334	.2480	.2707	.1664	.0324	.0326	-.0251
.520	.2254	.2801	.2432	.1190	-.0465	.0088
.663	.3586	.2734	-.0783	.0971	-.0850	-.0502
.873	.3197	.1428	.0162	-.0686	-.2532	-.2897

MACH (1) = .165 ALPHA (6) = 19.990 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z/B						
.000	.4095	.2648	-.0372	.1713	.0875	.0099
.334	.3383	.3632	.2758	.1196	.0923	.0018
.520	.3641	.3766	.3362	.1949	.0049	-.0136
.663	.4333	.3832	.0560	.1608	-.0454	-.1075
.873	.3579	.2014	.0794	-.0377	-.2807	-.4287

DATE 08 OCT 74

TABULATED SOURCE DATA - CASHB

PAGE 117

CASHB-B B16C5F1 J42 W07E16 WING LOWER SURFACE

(ADVL69) (12 NOV 73)

REFERENCE DATA

BREF = 4.4120 92.Ft. XMRP = 43.3940 IN.
 LREF = 19.2300 IN. (MRP) = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0403

PARAMETRIC DATA

BETA = .000 PTN/P = 1.300
 H/B = .286 BDFLAP = -18.000
 ELEVON = .000

MACH (1) = .165 ALPHA (1) = -3.990 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r/B

.000 .0337 -.4097 -.5121 -.2660 -.1804 -.1867
 .334 -.2367 -.1881 -.3061 -.2865 -.2105 -.1525
 .520 -.3531 -.2489 -.2274 -.2560 -.3218 -.1147
 .663 -.3145 -.2090 -.1984 -.2600 -.3461 -.1513
 .873 -.2543 -.2097 -.3173 -.3644 -.3499 -.1783

MACH (1) = .165 ALPHA (2) = .005 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r/B

.000 .0938 -.2863 -.4281 -.1804 -.1459 -.1727
 .334 -.0931 -.0640 -.1934 -.2242 -.1788 -.1549
 .520 -.1928 -.1052 -.1107 -.1828 -.2856 -.1041
 .663 -.0937 -.0749 -.1039 -.1752 -.3078 -.1305
 .873 -.0225 -.0885 -.2253 -.2816 -.3186 -.1677

MACH (1) = .165 ALPHA (3) = 5.010 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r/B

.000 .1616 -.1366 -.3304 -.0789 -.0917 -.1391
 .334 .0555 .0676 -.0555 -.1359 -.1173 -.1137
 .520 -.0362 .0540 .0231 -.0779 -.2197 -.0798
 .663 .1041 .0650 .0051 -.0811 -.2463 -.1132
 .873 .1314 .0012 -.1273 -.2127 -.2960 -.1548

OA37-B B16C3F1 J42 W8TE10 WING LOWER SURFACE

(RDVL69)

MACH (1) = .165 ALPHA (4) = 10.010 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000	.2441	.0034	-.2244	.0200	-.0273	-.0914
.334	.1646	.1628	.0598	-.0499	-.0369	-.0491
.520	.0835	.1670	.1357	.0247	-.1243	-.0237
.663	.2584	.1892	.1147	.0120	-.1610	-.0622
.873	.2439	.0841	-.0401	-.1421	-.2612	-.1974

MACH (1) = .165 ALPHA (5) = 14.990 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000	.3162	.1370	-.1227	.0996	.0337	-.0206
.334	.2555	.2773	.1746	.0398	.0315	-.0280
.520	.2322	.2793	.2475	.1148	-.0504	-.0028
.663	.3587	.2635	.1590	.0838	-.1176	-.0560
.873	.3249	.1439	.0167	-.0675	-.2472	-.2699

MACH (1) = .165 ALPHA (6) = 19.975 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000	.4119	.2597	-.0218	.1860	.0883	.0190
.334	.3421	.3604	.2732	.1149	.0717	-.0194
.520	.3641	.3677	.3331	.1837	-.0182	-.0411
.663	.4379	.3710	.2194	.1253	-.0986	-.1282
.873	.3596	.1979	.0651	-.0399	-.2756	-.3922

REFERENCE DATA

BAEF = 4.4120 83.FT. XMRP = 43.3940 IN.
LREF = 19.2300 IN. YMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.000
M/B = .246 BDFLAP = -18.000
ELEVON = .000

MACH (1) = .165 ALPHA (1) = -4.025 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z/B						
.000	.0720	-.4075	-.4134	-.2401	-.2080	-.2061
.334	-.2318	-.1928	-.2956	-.2902	-.2337	-.1691
.520	-.3521	-.2602	-.2278	-.2674	-.3298	-.1201
.663	-.3156	-.2118	-.2161	-.2552	-.3497	-.1544
.873	-.2551	-.2142	-.3225	-.3695	-.3518	-.1833

MACH (1) = .165 ALPHA (2) = -.010 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z/B						
.000	.0973	-.2813	-.3491	-.1525	-.1659	-.1897
.334	-.0851	-.0584	-.2002	-.2234	-.1952	-.1774
.520	-.1959	-.1046	-.1182	-.1949	-.2964	-.1335
.663	-.1026	-.0739	-.1258	-.1817	-.3135	-.1492
.873	-.0271	-.0912	-.2315	-.2963	-.3193	-.1717

MACH (1) = .165 ALPHA (3) = 4.960 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z/B						
.000	.1340	-.1289	-.2640	-.0882	-.1016	-.1538
.334	.0490	.0672	-.0768	-.1521	-.1348	-.1408
.520	-.0399	.0466	.0139	-.0979	-.2334	-.1053
.663	.0964	.0579	-.0205	-.0811	-.2584	-.1432
.873	.1308	-.0083	-.1418	-.2204	-.3052	-.2046

DATE 08 OCT 74 TABULATED SOURCE DATA - CA57B

(RDVL70)

MACH (1) = .165 ALPHA (4) = 9.960 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z1/B						
.000	.2380	.0088	-.1669	.0337	-.0310	-.1002
.334	.1864	.1861	.0559	-.0615	-.0550	-.0735
.520	.0852	.1734	.1277	.0086	-.1549	-.0823
.663	.2545	.1766	.0853	.0196	-.1976	-.1332
.873	.2407	.0735	-.0566	-.1483	-.2723	-.2080

MACH (1) = .165 ALPHA (5) = 15.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z1/B						
.000	.3197	.1442	-.0690	.1144	.0338	-.0295
.334	.2531	.2816	.1713	.0318	.0145	-.0501
.520	.2257	.2771	.1455	.0954	-.0724	-.0400
.663	.3610	.2614	.1493	.0768	-.1343	-.0999
.873	.3344	.1438	.0220	-.0700	-.2467	-.2644

MACH (1) = .165 ALPHA (6) = 19.995 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z1/B						
.000	.4138	.2625	.0240	.1943	.0784	-.0133
.334	.3589	.3583	.2615	.0993	.0444	-.0574
.520	.3578	.3601	.3218	.1635	-.0463	-.0795
.663	.4363	.3574	.1991	.1131	-.1286	-.1539
.873	.3691	.1957	.0607	-.0430	-.2664	-.3456

CA57-B 518CSF1 J40 WTE10 WING UPPER SURFACE

(RDVU03) (12 NOV 73)

REFERENCE DATA

BREF = 4.4120 84.FT. XMRP = 43.5940 IN.
 LREF = 19.1300 IN. LMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.000
 M/B = .039 BDFLAP = -18.000
 ELEVON = .000

MACH (1) = .165 ALPHA (1) = 10.000 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/H/B

.000 -.2234 -.3770 -.2303 -.0957 -.1456 -.1989
 .334 -.7553 -.5755 -.5014 -.2877 -.1579 .0020
 .520 -.7158 -.5937 -.4236 -.3153 -.2160 .0319
 .663 -1.1765 -.7859 -.4861 -.3229 -.0515 .0836
 .873 -1.0151 -.8603 -.7052 -.5207 -.3484 -.2996

MACH (1) = .165 ALPHA (2) = 15.025 RN/L = 1.200 MACH = .165

SECTION (2) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/H/B

.000 -.2643 -.4226 -.2533 -.1083 -.1646 -.2015
 .334 -1.2527 -.6571 -.6428 -.3408 -.2026 -.0405
 .520 -.7328 -.6571 -.5013 -.4051 -.3007 -.0321
 .663 -1.3002 -.8333 -.5102 -.3610 -.1491 -.0528
 .873 -2.6551 -1.5804 -1.1352 -.8670 -.7456 -.5976

MACH (1) = .165 ALPHA (3) = 20.045 RN/L = 1.200 MACH = .165

SECTION (3) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/H/B

.000 -.3087 -.4846 -.3443 -.2109 -.2964 -.2633
 .334 -1.5628 -.8339 -.8660 -.5753 -.3610 -.1389
 .520 .7500 -.8119 -.9069 -.8187 -.6362 -.2928
 .663 -2.4077 -1.3001 -1.1562 -1.0598 -.6286 -.5180
 .873 -1.0984 -1.0940 -1.0510 -.9487 -.8914 -.8824

CA57-B B16C5F1 J40 W8TE18 WING UPPER SURFACE

(RDVU04) (12 NOV 73)

REFERENCE DATA

SREF = 4.4120 SQ.FT. XMRP = 43.5940 IN.
 LREF = 10.2500 IN. YMRP = .0000 IN.
 SREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.300
 M/B = .039 BDFLAP = -10.000
 ELEVON = .000

MACH (1) = .165 ALPHA (1) = 10.000 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z1/B						
.000	-.2229	-.3653	-.2157	-.1002	-.1385	-.1994
.334	-.7498	-.5516	-.4962	-.2780	-.1400	.0046
.520	-.7143	-.5588	-.4330	-.3140	-.2057	.0357
.663	-1.1292	-.7610	-.4646	-.3033	-.3586	.0740
.873	-.9420	-.8142	-.6644	-.4688	-.2890	-.2201

MACH (1) = .165 ALPHA (2) = 15.050 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z1/B						
.000	-.2605	-.4115	-.2452	-.1049	-.1464	-.1960
.334	-1.2572	-.6946	-.6133	-.5285	-.1891	-.0360
.520	-.7663	-.6352	-.5397	-.4092	-.3043	-.0328
.663	-1.1655	-.7431	-.5023	-.3621	-.1514	-.0540
.873	-2.3165	-1.5493	-1.1622	-.9076	-.7753	-.5820

MACH (1) = .165 ALPHA (3) = 19.960 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z1/B						
.000	-.3099	-.4898	-.3440	-.2146	-.3061	-.2666
.334	-1.5562	-.8566	-.8202	-.5522	-.3478	-.1362
.520	-.8023	-.8032	-.9017	-.7884	-.6237	-.2838
.663	-1.5206	-1.3613	-1.1394	-.9823	-.5712	-.5096
.873	-1.1921	-1.0703	-1.0363	-.9468	-.8656	-.8606

CA57-B B16C5F1 J40 W07E10 WING UPPER SURFACE

(RDVU03) (12 NOV 73)

REFERENCE DATA

MREF = 4.4120 83. FT. MMRP = 43.3940 IN.
 LREF = 19.2300 IN. LMRP = .0000 IN.
 OAL = 37.9330 IN. ZMRP = -.4030 IN.
 SCALE = .0403

PARAMETRIC DATA

BETA = .000 PTN/P = 1.500
 M/B = .039 BOFLAP = -.16,000
 ELEVON = .000

MACH (1) = .165 ALPHA (1) = 9.990 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 -.2067 -.3364 -.2050 -.0855 -.1267 -.1929
 .334 -.7368 -.5218 -.4979 -.2590 -.1179 .02 3
 .520 -.7032 -.5921 -.4290 -.2883 -.1450 .0510
 .663 -1.0915 -.7370 -.4510 -.2883 -.0407 .0757
 .873 -.8852 -.7769 -.6363 -.4452 -.2660 -.1954

MACH (1) = .165 ALPHA (2) = 15.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 -.2536 -.4013 -.2322 -.0947 -.1416 -.1918
 .334 -1.2339 -.6768 -.5834 -.3053 -.1720 -.0172
 .520 -.7551 -.6430 -.5119 -.3607 -.2776 -.0077
 .663 -1.1446 -.7203 -.4999 -.3541 -.1372 -.0363
 .873 -1.7315 -1.2919 -1.0844 -.8347 -.6750 -.5358

MACH (1) = .165 ALPHA (3) = 20.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 -.3107 -.4794 -.3625 -.2213 -.2052 -.2735
 .334 -1.5380 -.8332 -.7595 -.5473 -.3403 -.1365
 .520 -.7907 -.6007 -.4486 -.3721 -.2619 -.2790
 .663 -1.4282 -1.2642 -1.0757 -.9045 -.6523 -.5054
 .873 -1.1243 -.7248 -.5814 -.4502 -.3210 -.2193

DATE 08 OCT 74

TABULATED SOURCE DATA - CA57B

PAGE 124

CA57-B 818C5F1 J40 W87E18 WING UPPER SURFACE

(ZDVU06) (12 NOV 73)

REFERENCE DATA

MREF = 4.4120 82 FT. XMRP = 43.5940 IN.
 LREF = 18.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

MACH (1) = .165 ALPHA (1) = -3.980 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000	
Z1/B	.000	-.0370	-.1640	-.1035	-.0029	-.0367	-.1759
.334	-.1641	-.2415	-.3046	-.1770	-.0267	.0393	
.520	-.3151	-.3678	-.3272	-.2067	-.0967	-.1243	
.663	-.3684	-.4057	-.3071	-.2155	-.0263	.1169	
.875	.0854	-.3566	-.2796	-.2056	-.1019	.0089	

MACH (1) = .165 ALPHA (2) = .010 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000	
Z1/B	.000	-.0911	-.2049	-.1367	-.0331	-.0716	-.1644
.334	-.2876	-.3232	-.3453	-.1917	-.0339	.0439	
.520	-.4567	-.4433	-.3611	-.2171	-.0894	-.0690	
.663	-.6249	-.5335	-.3676	-.2364	-.0222	.1253	
.875	-.1125	-.4687	-.3612	-.2424	-.1043	-.0103	

MACH (1) = .165 ALPHA (3) = 4.980 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000	
Z1/B	.000	-.1480	.2506	-.1741	-.0672	-.0833	-.1672
.334	-.5151	-.5211	-.4472	-.2194	-.0424	.0404	
.520	-.6039	-.5117	-.3744	-.2301	-.1063	-.0323	
.663	-.9205	-.6671	-.4165	-.2646	-.0420	.1158	
.875	-.4747	-.6350	-.4905	-.3296	-.1688	-.0189	

PARAMETRIC DATA

BETA = .000 PTN/P = 1.000
 H/B = .125 BDFLAP = -16.000
 ELEVON = .000

(RDYU06)

CAS7-B 816-5F1 J40 W07E18 WING UPPER SURFACE
MACH (1) = .165 ALPHA (4) = 10.015 PW/L = 1.200 MACH = .165

SECTION 11 WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/R

.000 -.2057 -.3033 -.2067 -.0828 -.1009 -.1757
.334 -.7173 -.5423 -.4866 -.2693 -.1133 .0081
.520 -.6827 -.5871 -.4303 -.2669 -.1674 -.0967
.663 -1.1759 -.7917 .4982 -.3301 -.0520 .1326
.873 -.9606 -.8220 -.6866 -.4751 -.2824 -.1845

MACH (1) = .165 ALPHA (5) = 15.000 PW/L = 1.200 MACH = .165

SECTION 11 WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/R

.000 -.2471 -.3408 -.2253 -.0824 -.066 -.1871
.334 -1.2028 -.6557 -.5773 -.3085 -.1531 -.0288
.520 -.7437 -.6194 -.4686 -.3483 -.2185 -.1117
.663 -1.3271 -.8669 -.5238 -.3076 -.0963 .0234
.873 -2.0887 -1.7399 -.9711 -.7819 -.6685 -.4521

MACH (1) = .165 ALPHA (6) = 19.945 PW/L = 1.200 MACH

SECTION 11 WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/R

.000 -.2916 -.4263 -.2972 -.1588 -.2 2727
.334 -1.5174 -.8403 -.7776 -.5072 -.3 -1413
.520 -.7549 -.7182 -.7639 -.7709 -.5101 -4159
.663 -1.2831 -1.145 -1.3427 -1.0679 -.5501 -4413
.873 -1.0775 -1.0298 -1.0061 -.9616 -.7 -9025

CA37-B B16C5F1 J40 W8TE10 WING UPPER SURFACE

(RDVUD . (12 NOV 73)

REFERENCE DATA

SREF = 4.4120 83.87 XMRP = 43.9840 IN.
 LREF = 19.2300 IN. IMRP = .0000 IN.
 SREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.300
 M/B = .125 BDFLAP = -18.000
 ELEVON = .000

MACH (1) = .165 ALPHA (1) = -3.980 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/C

.000 -.0458 -.1439 -.0848 .0112 -.0517 -.1665
 .334 -.1364 -.2287 -.2800 -.1341 .0244 .0529
 .520 -.2710 -.4102 -.3034 -.1823 -.0992 -.0603
 .663 -.3142 -.3824 -.2860 -.1900 -.0152 .1275
 .873 .1257 -.3274 -.2619 -.1920 -.0933 .0167

MACH (1) = .165 ALPHA (2) = .005 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/C

.000 -.0826 -.1872 -.1306 -.0183 -.0762 -.1601
 .334 -.2547 -.3245 -.3421 -.1755 .0321 .0558
 .520 -.4414 -.4130 -.3370 -.2086 -.0694 -.0266
 .663 -.5874 -.5178 -.3348 -.2270 -.0172 .1295
 .873 -.0836 -.4493 -.3463 -.2342 -.0879 -.0353

MACH (1) = .165 ALPHA (3) = 4.995 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/C

.000 -.1387 -.2378 -.1455 -.0565 -.0929 -.1578
 .334 -.4880 -.4808 -.4318 -.2063 .0172 .0435
 .520 -.5820 -.5015 -.3737 -.2187 -.023 -.0266
 .663 -.8844 -.6337 -.4169 -.2377 -.1596 .1046
 .873 -.4426 -.0471 -.4855 -.3265 -.1635 -.0196

DATE 08 OCT 74 *ADJUSTED SOURCE DATA - CAS/B

(REV007)

.437-B 516C5F1 J40 W87E1A WING UPPER SURFACE

MACH (1) = .165 ALPHA (4) = 9.975 PIV/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 -.2022 -.2646 -.2008 -.0776 -.1044 -.1720
 .334 -.7141 -.5065 -.4773 -.2586 -.0226 .0203
 .520 -.7007 -.5697 -.4476 -.2845 -.1517 -.0614
 .663 -1.1361 -.7842 -.4779 -.3317 -.0515 .1210
 .873 -.8940 -.8021 -.6463 -.4520 -.2729 -.1511

MACH (1) = .165 ALPHA (5) = 15.000 PIV/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 -.2439 -.3192 -.2288 -.0817 -.1198 -.1824
 .334 -1.1957 -.6823 -.5890 -.2946 .0215 -.0430
 .520 -.7840 -.6354 -.5485 -.3295 -.2354 -.0713
 .663 -1.2466 -.7953 -.5071 -.3366 -.1167 -.0203
 .873 -1.6243 -1.1487 -.9907 -.7052 -.5930 -.4457

MACH (1) = .165 ALPHA (6) = 19.975 PIV/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 -.2791 -.3835 -.2833 -.1534 -.2418 -.2447
 .334 -1.4732 -.7505 -.7171 -.4629 -.2399 -.1288
 .520 -.7231 -.6652 -.7785 -.6863 -.6217 -.3489
 .663 -1.2829 -1.2526 -1.1095 -1.0167 -.4932 -.4695
 .873 -1.1125 -1.0354 -1.0077 -.9244 -.8675 -.8626

CA57-B B16C5F1 J40 WJTE18 WING UPPER SURFACE

(RDVU08) (12 NOV 73)

REFERENCE DATA

BREF = 4.4120 8d.FT. XMRP = 43.5940 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.6350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

MACH (1) = .165 ALPHA (1) = -4.015 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 -.0604 -.1534 -.0842 -.0009 -.0620 -.1766
 .334 -.1334 -.2315 -.2756 -.1198 .1862 -.2116
 .520 -.2623 -.3360 -.3092 -.1473 -.0918 -.1158
 .663 -.2804 -.4066 -.2886 -.1949 -.0375 .0893
 .873 .1361 -.3217 -.2694 -.2074 -.1043 .0015

MACH (1) = .165 ALPHA (2) = -.030 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 -.0916 -.1901 -.1343 -.0283 -.0763 -.1745
 .334 -.2611 -.3065 -.3264 -.1509 .1899 -.1924
 .520 -.4513 -.4125 -.3674 -.1742 -.1077 -.0525
 .663 -.5375 -.5414 -.3498 -.2319 -.0370 .0980
 .873 -.0473 -.4432 -.3448 -.2387 -.1027 -.0124

MACH (1) = .165 ALPHA (3) = 4.990 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 -.1343 -.2236 -.1527 -.0480 -.0712 -.1586
 .334 -.4618 -.4368 -.107 -.1660 .1127 -.1728
 .520 -.5450 -.4400 .3707 -.1700 -.1336 -.0464
 .663 -.7904 -.6030 -.3708 -.2404 -.0510 .0549
 .873 -.3751 -.5843 .4516 -.2978 -.1448 .0023



PARAMETRIC DATA

BETA = .000 PTN/P = 1.500
 H/B = .125 BDFLAP = -18.000
 ELEVON = .000

CAS7-B B16C5F1 J40 W07E18 WING UPPER SURFACE (RDVU08)

MACH (1) = .165 ALPHA (4) = 9.980 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 7500 .9000

Z1/B

.000 -.1894 -.2726 -.1725 -.0617 -.0772 -.1443
 .334 -.6811 -.4201 -.4433 -.2163 -.0358 -.1018
 .520 -.6335 -.5150 -.4604 -.2318 -.0875 -.0379
 .663 -1.0266 -.7367 -.4461 -.3121 -.0469 .0628
 .873 -.8048 -.7423 -.5964 -.3954 -.2158 -.1057

MACH (1) = .165 ALPHA (5) = 14.950 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 -.2403 -.3239 -.2113 -.0727 -.0915 -.1752
 .334 -1.1578 -.5901 -.5521 -.2642 -.1120 -.0310
 .520 -.7095 -.5991 -.5071 -.2702 -.1552 -.0516
 .663 -1.1904 -.8710 -.5208 -.2775 -.0702 .0422
 .873 -1.6193 -1.1714 -.9057 -.6188 -.5538 -.4120

MACH (1) = .165 ALPHA (6) = 19.965 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 -.2774 -.4193 -.2893 -.1420 -.2529 -.2503
 .334 -1.5265 -.8081 -.7299 -.4686 -.3154 -.0810
 .520 -.7294 -.6952 -.8383 -.7004 -.5532 -.3157
 .663 -1.2015 -1.2180 -1.1600 -1.0022 -.5743 -.5172
 .873 -1.0935 -1.0760 -.9963 -.9294 -.8599 -.8742

CA57-B B16C3F1 J40 W8TE10 WING UPPER SURFACE

(RDVU15) (12 NOV 73)

REFERENCE DATA

BREF = 4.4120 83.FT. XMRP = 43.5940 IN.
 LREF = 19.2300 IN. INRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.000
 H/B = .286 BDFLAP = -18.000
 ELEVON = .000

MACH (1) = .165 ALPHA (1) = -3.985 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z1/B						
.000	-.0462	-.1546	-.0787	.0113	-.0349	-.1508
.334	-.1299	-.2199	-.2618	-.1375	.0523	.0786
.520	-.2939	-.3023	-.2853	-.1619	-.0805	.0988
.663	-.3100	-.3634	-.2618	-.1700	.0817	.1296
.873	.1544	-.3144	-.0713	-.3045	-.0691	.0210

MACH (1) = .165 ALPHA (2) = .015 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z1/B						
.000	-.0854	-.1990	-.1297	-.0210	-.0585	-.1541
.334	-.2481	-.3027	-.3204	-.1657	.0254	.0676
.520	-.4574	-.3901	-.3446	-.1920	-.0762	.0840
.663	-.5681	-.5077	-.3339	-.2082	.0412	.1209
.873	-.0682	-.4193	-.1391	-.3514	-.0793	.0054

MACH (1) = .165 ALPHA (3) = 5.000 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z1/B						
.000	-.1390	-.2596	-.1678	-.0508	-.0814	-.1347
.334	-.4015	-.4237	-.3796	-.2070	-.0259	.0512
.520	-.5823	-.4658	-.3578	-.1970	-.0808	.0055
.663	-.8358	-.6333	-.3861	-.2323	.0047	.1035
.873	-.3801	-.5275	-.2402	-.4584	-.1352	-.0404

C457-8 B18C5F1 J40 W47E18 WING UPPER SURFACE (R0YU13)

MACH (1) = .165 ALPHA (4) = 10.015 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 -.1987 -.3225 -.2080 -.0132 -.1012 -.1787
 .334 -.7194 -.5254 -.4720 -.2336 -.0445 .0410
 .520 -.6433 -.5375 -.4325 -.2569 -.1252 .0160
 .663 -1.1001 -.7656 -.4915 -.3176 -.0093 .1074
 .873 -.8642 -.7242 -.5492 -.3429 -.2914 -.1804

MACH (1) = .165 ALPHA (5) = 14.975 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 -.2493 -.3797 -.2224 -.0806 -.1142 -.2019
 .334 -1.1911 -.7296 -.5985 -.3037 -.1353 -.0002
 .520 -.7705 -.5799 -.4898 -.3104 -.1794 -.0733
 .663 -1.2949 -.8978 -.5389 -.3287 -.0359 .0211
 .873 -1.7249 -1.1514 -.9130 -.8085 -.6070 -.4341

MACH (1) = .165 ALPHA (6) = 20.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 -.2718 -.4248 -.2587 -.1305 -.2096 -.2662
 .334 -1.4497 -.8623 -.7485 -.4861 -.2852 -.0894
 .520 -.7512 -.6176 -.7333 -.6636 -.5057 -.2462
 .663 -1.1141 -1.1538 -1.1116 -1.0045 -.5033 -.4165
 .873 -1.0323 -1.0013 -1.0514 -.9964 -.8934 -.6657

CASHB-B B16C5F1 J40 WOTE18 WING UPPER SURFACE

(FDV016) (12 NOV 73)

REFERENCE DATA

BREF = 4.4120 94.FT. XMRP = 43.5940 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.500
 H/B = .286 BDFLAP = -18.000
 ELEVON = .000

MACH (1) = .165 ALPHA (1) = -3.985 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/B

.000 -.0435 -.1659 -.0835 .0185 -.0345 -.1433
 .334 -.1134 -.2077 -.2567 -.1316 .0127 .1027
 .520 -.2780 -.2814 -.2812 -.1525 -.0479 .1688
 .663 -.2675 -.2815 -.2539 -.1805 .0625 .1444
 .875 .1434 -.3459 -.3052 -.2158 -.0068 .0596

MACH (1) = .165 ALPHA (2) = .015 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/B

.000 -.0804 -.2177 -.1314 -.0193 -.0600 -.1433
 .334 -.2312 -.2892 -.3157 -.1596 .0289 .0867
 .520 -.4421 -.3703 -.3406 -.1851 -.0483 .1455
 .663 -.5520 -.4268 -.3285 -.2057 .0276 .1278
 .875 -.0527 -.4867 -.3798 -.2653 -.0504 .0391

MACH (1) = .165 ALPHA (3) = 5.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/B

.000 -.1463 -.2743 -.1728 -.0590 -.0883 -.1431
 .334 -.4080 -.4196 -.3802 -.2255 -.0376 .0486
 .520 -.5883 -.4653 -.3651 -.2185 -.0794 .0321
 .663 -.8518 -.5608 -.3987 -.2425 -.0124 .0829
 .875 -.5666 -.6426 -.4975 -.3177 -.1217 -.0354

CA57-B B16C5F1 JSD W07E10 WING UPPER SURFACE

(RDVU26)

MACH (1) = .165 ALPHA (4) = 10.000 RN/L = 1.200 MACH = 165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000	-.2174	-.3544	-.2120	-.0904	-.1172	-.1593
.334	-.7400	-.5529	-.4713	-.2571	-.0570	.0230
.520	-.6416	-.5417	-.4475	-.2597	-.1171	.0268
.663	-1.1098	-.7129	-.4831	-.3132	-.0464	.0636
.873	-.8117	-.8020	-.6208	-.4017	-.2415	-.1596

MACH (1) = .165 ALPHA (5) = 15.010 RN/L = 1.200 MACH = 165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000	-.2404	-.3952	-.2249	-.0814	-.0933	-.1633
.334	-1.1475	-.6939	-.5771	-.2967	-.1528	.0191
.520	-.7657	-.5823	-.4893	-.3021	-.1714	.0206
.663	-1.2753	-.8184	-.5332	-.3280	.0280	.0862
.873	-1.5443	-1.0736	-.8695	-.6463	-.4653	-.3744

MACH (1) = .165 ALPHA (6) = 20.000 RN/L = 1.200 MACH = 165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000	-.2816	-.4499	-.2830	-.1290	-.1734	-.2249
.334	-1.3124	-.8675	-.7036	-.4426	-.2478	-.0820
.520	-.7865	-.5365	-.6678	-.5590	-.4364	-.1493
.663	-1.3722	-1.2263	-.9954	-.8575	-.5167	-.2529
.873	-1.3060	-1.2252	-1.1146	-1.0790	-.9313	-.6703

CA57-B R16C5F1 J40 W0TE10 WING UPPER SURFACE (RCVU17) (12 NOV 73)

REFERENCE DATA

XREF = 4.4120 83.FT. XMRP = 43.3940 IN.
 LREF = 19.2300 IN. LMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0403

PARAMETRIC DATA

BETA = .000 PTN/P = 1.300
 M/B = .286 BDFLAP = -18.000
 ELEVON = .000

MACH (1) = .165 ALPHA (1) = -3.975 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C 1500 .3000 .4500 .6000 .7500 .9000

Z/P

Z/C -0.0420 -.1705 -.0857 .0136 -.0394 -.1125
 Z/P -.1184 -.2086 -.2580 -.1332 .0790 .0444
 Z/P -.2846 -.2930 -.2875 -.1613 -.0820 .1174
 Z/P -.2117 -.2974 -.2599 .1175 .0477 .1247
 Z/P -.1425 -.3534 -.3011 -.2425 -.0113 .0539

MACH (1) = .165 ALPHA (2) = .005 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C 1500 .3000 .4500 .6000 .7500 .9000

Z/P/B

Z/C .0947 -.2196 -.1246 -.0259 -.0655 -.1408
 Z/P .2104 -.3006 -.3133 .1511 .0193 .0805
 Z/P .1415 -.3835 -.3406 -.1355 -.0758 .1782
 Z/P .1231 -.4517 -.3326 -.2104 .0213 .1155
 Z/P -.10475 -.4775 -.3595 -.2850 -.0431 .0360

MACH (1) = .165 ALPHA (3) = 5.000 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C 1500 .3000 .4500 .6000 .7500 .9000

Z/P/B

Z/C -.1610 -.2680 -.1674 -.0552 -.0947 -.1402
 Z/P -.4544 -.4303 -.3909 -.2165 -.0447 .0474
 Z/P -.5762 -.4601 -.3683 -.2072 -.0859 .0142
 Z/P -.3478 -.5774 -.3913 -.2469 -.0119 .0832
 Z/P -.3741 -.6286 -.4534 -.3439 -.1201 -.0233

DATE 08 OCT 74 TABULATED SOURCE DATA - CAST8

CAST8-B B16C3F1 J40 W8TE18 WING UPPER SURFACE (RDVUIT)

MACH (1) = .165 ALPHA (4) = 9.975 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/H/B

.000 -.2012 -.3501 -.2013 -.0795 -.1089 -.1555
 .334 -.7155 -.5309 -.4542 -.2429 -.0607 .0390
 .520 -.6663 -.5482 -.4373 -.2606 -.1414 .0153
 .663 -1.0915 -.7130 -.4912 -.3134 -.0367 .0679
 .873 -.8287 -.7872 -.6054 -.4361 -.2670 -.1898

MACH (1) = .165 ALPHA (5) = 15.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/H/B

.000 -.2452 -.3992 -.2285 -.0813 -.1007 -.1773
 .334 -1.1622 -.7128 -.5949 -.2928 -.1367 -.0039
 .520 -.7713 -.5927 -.4592 -.3048 -.2016 .0106
 .663 -1.2576 -.8095 -.5169 -.3133 .0184 .0780
 .873 -1.6147 -1.1032 -.8870 -.6636 -.5300 -.4011

MACH (1) = .165 ALPHA (6) = 20.005 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/H/B

.000 -.2828 -.4567 -.2691 -.1318 -.1824 -.2199
 .334 -1.4884 -.8622 -.7030 -.4364 -.2775 -.0790
 .520 -.7649 -.6690 -.6322 -.5564 -.4478 -.1806
 .663 -1.3375 -1.3212 -.9773 -.8807 -.7392 -.2777
 .873 -1.3041 -1.1833 -1.1061 -1.0834 -.8993 -.6798

QAS7-B B16C3F1 J40 WATE18 WING UPPER SURFACE (RDVU28) (12 NOV 73)

REFERENCE DATA

BREF = 4.4120 RJ.FT. XMRP = 43.5840 IN.
 LAZF = 19.2300 IN. FMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.500
 H/B = .125 BDFLAP = -18.000
 ELEVON = 15.000

MACH (1) = .165 ALPHA (1) = -4.073 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/F/B

.000 -.0857 -.1938 -.1454 -.0382 -.0937 -.2169
 .334 -.2280 -.2582 -.3702 -.2991 -.3313 -.1482
 .520 -.3271 -.4080 -.3648 -.3465 -.4303 -.0751
 .663 -.4112 -.2283 -.4301 -.3942 -.6685 -.0314
 .873 .0509 -.5342 -.5908 -.4248 -.3007 -.1174

MACH (1) = .165 ALPHA (2) = -.020 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/F/B

.000 -.1336 -.2309 -.1944 -.0645 -.1176 -.1882
 .334 -.3848 -.3338 -.4293 -.3343 -.3273 -.1612
 .520 -.5006 -.5006 -.4376 -.3801 -.3939 -.1297
 .663 -.7046 -.3852 -.5204 -.4403 -.6431 -.0702
 .873 -.1761 -.6875 -.6848 -.5320 -.3584 -.1796

MACH (1) = .165 ALPHA (3) = 4.957 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/F/B

.000 -.2089 -.3182 -.2362 -.1045 -.1514 -.1687
 .334 -.5587 -.5375 -.5139 -.3886 -.3404 -.1690
 .520 -.6496 -.5929 -.4732 -.3916 -.3142 -.2205
 .663 -1.0077 -.5482 -.6080 -.4801 -.6131 -.1625
 .873 -.6200 -.8793 -.8305 -.6671 -.5021 -.3352



DATE 08 OCT 74

TABULATED SOURCE DATA - CA57B

PAGE 137

CA57-B B16C5F1 J40 .37E18 WING UPPER SURFACE (RDVU28)

MACH (1) = .165 ALPHA (4) = 9.965 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/H/B

.000	-.3044	-.3682	-.2626	-.1306	-.1545	-.1629
.334	-.6911	-.6280	-.5684	-.4037	-.3469	-.1750
.520	-.7391	-.6196	-.5495	-.4328	-.4074	-.0918
.663	-1.2390	-.7105	-.6705	-.5252	-.5820	-.1382
.873	-1.2115	-1.1232	1.0110	-.7934	-.6620	-.5016

MACH (1) = .165 ALPHA (5) = 14.965 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/H/B

.000	-.3667	-.4793	-.3092	-.1616	-.1793	-.1924
.334	-.9853	-.7955	-.7043	-.4763	-.3609	-.2454
.520	-.8258	-.7068	-.6548	-.5226	-.5203	-.2262
.663	-1.3013	-.7731	-.6245	-.5301	-.4412	-.2549
.873	-.7741	-1.9679	-1.5779	-1.1845	-1.1419	-.8307

MACH (1) = .165 ALPHA (6) = 19.990 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/H/B

.000	-.4084	-.5155	-.4674	-.2898	-.3356	-.2729
.334	-1.3077	-.8816	-.9203	-.6989	-.5179	-.3758
.520	-.8628	-.9418	-1.0191	-.8842	-.8636	-.5445
.663	-1.3979	-1.3016	-1.1979	-1.1339	-.9740	-.7103
.873	-1.2220	-1.1672	-1.1603	-1.0676	-.9548	-.7879

GA37-B B16C5F1 J40 W07E18 WING UPPER SURFACE (RDVUZ9) (12 NOV 75)

REFERENCE DATA

BREF = 4.4150 94.FT. XMRP = 43.5940 IN.
 LREF = 18.2300 IN. PMRP = .0000 IN.
 BREF = 37.8350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.300
 M/B = .125 BDFLAP = -18.000
 ELEVON = 15.000

MACH (1) = .165 ALPHA (1) = -4.010 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 -.0897 -.2267 -.1416 -.0374 -.1033 -.2068
 .334 -.4128 -.2473 -.3492 -.2938 -.1545 -.2410
 .520 -.3609 -.4193 -.3403 -.3612 -.4324 -.1358
 .663 -.4280 -.1553 -.4423 -.4110 -.7406 -.0527
 .873 -.7075 -.5401 -.5876 -.4173 -.3037 -.1394

MACH (1) = .165 ALPHA (2) = -.030 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 -.1361 -.2829 -.1956 -.0625 -.1247 -.1876
 .334 -.3767 -.3420 -.4123 -.3213 -.1428 -.2931
 .520 -.2315 -.5022 -.4027 -.3646 -.3900 -.1615
 .663 -.7136 -.3067 -.5117 -.4425 -.6796 -.0919
 .873 -.1765 -.6838 -.6774 -.5221 -.3723 -.1549

MACH (1) = .165 ALPHA (3) = 4.965 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 -.2411 -.3434 -.2247 -.1005 -.1508 -.1634
 .334 -.8097 -.5300 -.5204 -.3533 -.1665 -.2603
 .520 -.6655 -.5657 -.4546 -.3847 -.3276 -.1639
 .663 -1.0098 -.4740 -.5920 -.4717 -.6390 -.1511
 .873 -.6432 -.8699 -.8107 -.6379 -.4869 -.3249

DATE 08 OCT 74 TABULATED SOURCE DATA - CA37B (RDVU29)

MACH (1) = .165 ALPHA (4) = 9.365 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 -.3097 -.3943 -.2584 -.1270 -.1694 -.1675
 .334 -.9011 -.5861 -.5528 -.3633 -.0891 -.3121
 .520 -.7778 -.6204 -.5422 -.4128 -.3837 -.1736
 .663 -1.2686 -.6578 -.6663 -.5017 -.5472 -.1411
 .873 -1.2758 -1.1259 -1.0163 -.8213 -.6803 -.5234

MACH (1) = .165 ALPHA (5) = 14.950 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 -.3399 -.4420 -.3150 -.1710 -.2114 -.2029
 .334 -1.3521 -.7743 -.7082 -.4512 -.3149 -.3860
 .520 -.8401 -.7410 -.6511 -.5134 -.5324 -.2654
 .663 -1.3670 -.7757 -.6285 -.5038 -.4638 -.2408
 .873 -2.3243 -2.4098 -1.8681 -1.2916 -1.2583 -.8395

MACH (1) = .165 ALPHA (6) = 19.960 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 -.3637 -.4745 -.4117 -.2990 -.3528 -.2892
 .334 -1.6295 -.8961 -.9172 -.6717 -.5421 -.4443
 .520 -.8465 -.8752 -1.0033 -.8934 -.8475 -.5444
 .663 -1.3650 -.3176 -1.2427 -1.1703 -.9479 -.6920
 .873 -1.1975 -1.1694 -1.1315 -1.0743 -.9945 -.8599

TABULATED SOURCE DATA - CASHS

CASH-B B18C5F1 J40 W87E10 WING UPPER SURFACE (RDYU30) (12 NOV 75)

REFERENCE DATA

REF = 4.4120 82.11. XWAP = 43.5940 IN. BETA = .000 PTW/P = 1.000
 LREF = 19.2300 IN. RWAP = .0000 IN. H/B = .125 BDFLAP = -16.000
 WREF = 37.8350 IN. ZWAP = -.4050 IN. ELEVON = 15.000
 SCALE = .0405

PARAMETRIC DATA

MACH (1) = .165 ALPHA (1) = -4.000 AN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C	.1500	.2500	.4500	.6000	.7500	.9000	
Z1/B	.000	.3784	-.2214	-.1160	-.0314	-.0962	-.1697
	.334	-.3124	-.2701	-.2939	-.2613	-.2876	
	.520	-.3609	-.4285	-.3449	-.3522	-.4261	-.1206
	.693	-.4370	-.1262	-.4442	-.4145	-.7583	-.0469
	.873	-.0103	-.5553	-.5975	-.4052	-.3155	-.1551

MACH (1) = .165 ALPHA (2) = -.020 AN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000	
Z1/B	.000	-.1304	-.2920	-.1893	-.0646	-.1316	-.1835
	.334	-.4619	-.3701	-.4132	-.3365	-.2843	-.2628
	.520	-.5255	-.5101	-.4186	-.3860	-.3754	-.1557
	.693	-.7259	-.272	-.5198	-.4542	-.6947	-.0948
	.873	-.1978	-.6840	-.6870	-.5207	-.3725	-.1804

MACH (1) = .165 ALPHA (3) = 4.965 AN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000	
Z1/B	.000	-.2320	-.3488	-.2318	-.1072	.1517	-.1738
	.334	-.8554	-.9609	-.5413	-.3628	-.2711	-.2581
	.520	-.8763	-.5845	-.4708	-.3969	-.3293	-.1879
	.693	-1.0288	-.4842	-.6075	-.4922	-.6906	-.1492
	.873	-.8728	-.8873	-.8145	-.6478	-.5147	-.3560

DATE 06 OCT 74

TABULATED SOURCE DATA - QAS7B

PAGE 141

QAS7-B B16C5F1 J40 W87E18 WING UPPER SURFACE

(RDVU30)

MACH (1) = .165 ALPHA (4) = 9.985 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/Y/B

.000	-.2779	-.4124	-.2568	-.1187	-.1787	-.1655
.334	-.8582	-.5812	-.5832	-.3831	-.3021	-.2627
.520	-.7515	-.6213	-.5418	-.4037	-.3865	-.1268
.663	-1.2746	-.6517	-.6824	-.5139	-.5574	-.1477
.873	-1.3374	-1.1324	-1.0184	-.8500	-.7079	-.5437

MACH (1) = .165 ALPHA (5) = 14.980 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/Y/B

.000	-.3312	-.4509	-.2965	-.1604	-.1879	-.1919
.334	-1.4802	-.8019	-.7195	-.4357	-.3385	-.3100
.520	-.8155	-.7573	-.6706	-.5126	-.5491	-.2022
.663	-1.4604	-.8304	-.8543	-.5129	-.4488	-.2319
.873	-2.4795	-2.3785	-2.1294	-1.5408	-1.4094	-.8656

MACH (1) = .165 ALPHA (6) = 19.980 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/Y/B

.000	-.3792	-.5185	-.4242	-.2821	-.3217	-.3071
.334	-1.9685	-.9405	-.9149	-.6436	-.5004	-.4476
.520	-.7908	-.8526	-.9533	-.8774	-.8562	-.5194
.663	-1.4838	-1.2263	-1.1869	-1.1213	-.9276	-.6807
.873	-1.1406	-1.1078	-1.1110	-1.0702	-.9805	-.8526

REFERENCE DATA

WREF = 4.4150 83.171. WARP = 43.5940 IN.
LREF = 10.2300 IN. WARP = .0000 IN.
BREF = 37.9350 IN. WARP = -.4050 IN.
SCALE = .0405

MACH (1) = .165 ALPHA (1) = 10.010 RN/L = 1.200 MACH = .165

SECTION (1) WING

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 -.3285 -.4488 -.2774 -.1323 -.1755 -.1778
.334 -.7911 -.8086 -.5705 -.3732 -.3333 -.1096
.520 -.7578 -.8295 -.5235 -.4044 -.3936 -.0509
.663 -1.2334 -.8320 -.5984 -.4291 -.2789 -.1240
.873 -1.1617 -1.1023 -.9864 -.7948 -.6493 -.4723

MACH (1) = .165 ALPHA (2) = 15.005 RN/L = 1.200 MACH = .165

SECTION (1) WING

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 -.3466 -.4825 -.2764 -.1340 -.1753 -.1778
.334 -1.3409 -.8261 -.8756 -.4064 -.3061 -.2053
.520 -.8134 -.7357 -.6386 -.5078 -.5055 -.2166
.663 -1.3158 -.6674 -.6081 -.5007 -.3882 -.2585
.873 -2.8604 -1.9406 -1.8463 -1.1532 -1.3140 -.8445

MACH (1) = .165 ALPHA (3) = 20.000 RN/L = 1.200 MACH = .165

SECTION (1) WING

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 -.3679 -.5382 -.3843 -.2574 -.3126 -.2830
.334 -1.6570 -.8645 -.8596 -.6301 -.4494 -.3183
.520 -.8026 -.8205 -.9794 -.6495 -.7916 -.4912
.663 -1.6252 -1.4277 -1.2336 -1.1136 -.8547 -.7167
.873 -1.2424 -1.1774 -1.1259 -1.0603 -.9620 -.8226

PARAMETRIC DATA

BETA = .000 PTN/P = 1.500
H/B = .039 BOFLAP = -18.000
ELEVON = 15.000

REFERENCE DATA

SPEF = 4.4120 84.FT.

LREF = 19.2300 IN.

BREF = 37.9350 IN.

SCALE = .0405

XMRP = 43.5940 IN.

RMRP = .0000 IN.

ZMRP = -.4050 IN.

PARAMETRIC DATA

BETA = .000

PTN/P = 1.300

H/B = .039

BOFLAP = -18.000

ELEVON = 15.000

MACH (1) = .165

ALPHA (1) = 9.990

RN/L = 1.200

MACH = .165

SECTION (1) WING	DEPENDENT VARIABLE CP			
X/C	.1500	.3000	.4500	.6000 .7500 .9000
Z1/B				
.000	-.2949	-.4347	-.2680	-.1243 -.1632 -.1699
.334	-.7908	-.6067	-.5578	-.3583 -.1765 -.2019
.520	-.7315	-.6084	-.5192	-.3897 -.3723 -.0844
.663	-1.2195	-.6239	-.5886	-.4128 -.2781 -.1191
.873	-1.1752	-1.1137	-.9803	-.6712 -.5015

MACH (1) = .165

ALPHA (2) = 14.970

RN/L = 1.200

MACH = .165

SECTION (1) WING	DEPENDENT VARIABLE CP			
X/C	.1500	.3000	.4500	.6000 .7500 .9000
Z1/B				
.000	-.3310	-.4833	-.2782	-.1412 -.1792 -.1950
.334	-1.3108	-.8167	-.6613	-.3791 -.2138 -.2437
.520	-.7720	-.7215	-.6189	-.4650 -.4583 -.2264
.663	-1.3583	-.6781	-.5908	-.4960 -.3577 -.2236
.873	-2.6579	-2.0458	-1.6822	-1.1419 -1.2426 -.8222

MACH (1) = .165

ALPHA (3) = 19.980

RN/L = 1.200

MACH = .165

SECTION (1) WING	DEPENDENT VARIABLE CP			
X/C	.1500	.3000	.4500	.6000 .7500 .9000
Z1/B				
.000	-.3644	-.5406	-.3871	-.2684 -.3265 -.2949
.334	-1.6529	-.9837	-.8704	-.6437 -.3848 -.3835
.520	-.8137	-.8115	-.9911	-.8518 -.7933 -.5117
.663	-1.6318	-1.4034	-1.2501	-1.1005 -.8940 -.7165
.873	-1.2389	-1.1903	-1.1424	-1.0651 -.9713 -.8488

REFERENCE DATA

SMREF = 4.4120 84.FT.

LMREF = 19.2300 IN.

BMREF = 37.9350 IN.

SCALE = .0405

XMAP = 43.5940 IN.

YMAP = .0000 IN.

ZMAP = -.4050 IN.

BETA = .000

M/B = .039

ELEVON = 15.000

PTN/P = 1.000

80FLAP = -18.000

PARAMETRIC DATA

MACH (1) = .165

ALPHA (1) = 10.005

RN/L = 1.200

MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C

.1500

.3000

.4500

.6000

.7500

.9000

Z1/B

.000

.334

.520

.663

.873

-.2859

-.8004

-.7578

-1.2571

-1.2919

-.4363

-.6148

-.6239

-.6399

-1.1506

-.2642

-.5638

-.5303

-.6207

-1.0360

-.1270

-.3524

-.4066

-.4381

-.8647

-.1693

-.1228

-.3986

-.2988

-.7322

-.1116

-.212

-.0905

-.1240

-.5745

MACH (1) = .165

ALPHA (2) = 14.990

RN/L = 1.200

MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C

.1500

.3000

.4500

.6000

.7500

.9000

Z1/B

.000

.334

.520

.663

.873

-.3183

-1.3103

-.7679

-1.5084

-2.6405

-.4835

-.8299

-.6954

-.8124

-2.5114

-.2770

-.6797

-.6253

-.6597

-2.1367

-.1403

-.3872

-.4792

-.5538

-1.4509

-.1886

-.1493

-.4105

-.3939

-1.3686

-.1952

-.3228

-.2550

-.2341

-.8346

MACH (1) = .165

ALPHA (3) = 20.015

RN/L = 1.200

MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C

.1500

.3000

.4500

.6000

.7500

.9000

Z1/B

.000

.334

.520

.663

.873

-.3531

-1.6063

-.7969

-1.5016

-1.2144

-.5431

-.9928

-.8019

-1.4282

-1.1795

-.4019

-.9042

-1.0399

-1.2489

-1.1413

-.2859

-.6627

-.9150

-1.1386

-1.0728

-.3412

-.4904

-.7982

-.9057

-.9817

-.3000

-.3562

-.5260

-.7172

-.8367

REFERENCE DATA

DAEF = 2.4120 84.FT.

WARP = 43.5940 IN.

LOFF = 10.9400 IN.

WARP = .0000 IN.

DAEF = 37.9350 IN.

WARP = -.4050 IN.

SCALE = .0403

PARAMETRIC DATA

BETA = .000

PTN/P = 1.500

H/B = .286

BDFLAP = -10.000

ELEVON = 15.000

MACH (1) = .165

ALPHA (1) = -4.000

RN/L = 1.200

MACH = .155

SECTION (1) WING

X/C

.1500

.3000

.4500

.6000

.7500

.9000

Z1/B

.000

-.0723

-.2104

-.1362

-.0324

-.0872

-.1776

.334

-.1668

-.2735

-.3483

-.2897

-.1746

-.1177

.520

-.3080

-.4125

-.4076

-.3143

-.4185

-.0321

.863

-.3977

-.1220

-.4154

-.3669

-.6201

-.0091

.873

.0368

-.5167

-.5771

-.4037

-.2613

-.1075

MACH (1) = .165

ALPHA (2) = -.010

RN/L = 1.200

MACH = .165

SECTION (1) WING

X/C

.1500

.3000

.4500

.6000

.7500

.9000

Z1/B

.000

-.1086

-.2726

-.1789

-.0600

-.1163

-.1711

.334

-.2765

-.3566

-.4009

-.2908

-.1308

-.1971

.520

-.4708

-.4911

-.4528

-.3324

-.3612

-.0790

.663

-.6695

-.2719

-.4861

-.4137

-.6046

-.0441

.873

-.1982

-.6738

-.6745

-.5157

-.3190

-.1656

MACH (1) = .165

ALPHA (3) = 4.995

RN/L = 1.200

MACH = .165

SECTION (1) WING

X/C

.1500

.3000

.4500

.6000

.7500

.9000

Z1/B

.000

-.1935

-.3476

-.2177

-.0836

-.1390

-.1648

.334

-.4576

-.4939

-.4900

-.3447

-.0935

-.2919

.520

-.6137

-.5648

-.4850

-.3550

-.3278

-.1290

.863

-.9875

-.4279

-.5669

-.4576

-.5533

-.0980

.873

-.5644

-.8352

-.7847

-.6203

-.4080

-.2807

(RDV034)

CA37-B B16C3F1 J40 W0TE10 WING UPPER SURFACE

MACH (1) = .185 ALPHA (4) = 9.995 RN/L = 1.200 MACH = .185

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/H

.000 -.2797 -.4020 -.2446 -.1051 -.1589 -.1645
.334 -.7588 -.5840 -.5525 -.3602 -.2350 -.2897
.520 -.6828 -.6243 -.5533 -.3874 -.3537 -.1350
.663 -1.2381 -.6072 -.6486 -.5101 -.6415 -.0665
.873 -1.1065 -.4.0227 -.9447 -.7497 -.6024 -.5367

MACH (1) = .185 ALPHA (5) = 14.975 RN/L = 1.200 MACH = .185

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/H

.000 -.3299 -.4590 -.2881 -.1237 -.1488 -.2004
.334 -1.2777 -.7851 -.7032 -.4148 -.2739 -.3304
.520 -.8592 -.6800 -.5891 -.4316 -.1882
.663 -1.3944 -.7492 -.6701 -.4633 -.4825 -.1240
.873 -1.9341 -1.3714 -1.2337 -1.1403 -1.0735 -.8608

MACH (1) = .185 ALPHA (6) = 19.990 RN/L = 1.200 MACH = .185

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/H

.000 -.3454 -.5194 -.3347 -.1868 -.2293 -.2738
.334 -1.6189 -.9704 -.8583 -.6030 -.5094 -.4507
.520 -.7908 -.7198 -.6686 -.6157 -.8110 -.5007
.663 -1.2155 -1.2011 -1.2024 -1.0886 -.8850 -.7311
.873 -1.0981 -1.0835 -1.0770 -1.0888 -.9936 -.9057

C437-B B16C3F1 J40 WATE18 WING UPPER SURFACE

REFERENCE DATA

WAL = 4.4120 84.11. XW/P = 43.5940 IN.
 LREF = 19.2300 IN. W/P = .0000 IN.
 WREF = 37.9350 IN. ZW/P = -.4050 IN.
 SCALE = .0405

MACH (1) = .165 ALPHA (1) = -3.995 RN/L = 1.200 MACH = .165

SECTION (1) WING

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r/b
 .000 -.0379 -.2138 -.1264 -.0170 -.0760 -.1726
 .334 -.1637 -.2640 -.3443 -.2786 -.1947 -.2061
 .520 -.3196 -.4087 -.4077 -.3157 -.4018 -.0375
 .663 -.4050 -.0900 -.4081 -.3709 -.6384 -.0118
 .873 .0205 -.5224 -.5743 -.3927 -.2640 -.1074

MACH (1) = .165 ALPHA (2) = -.020 RN/L = 1.200 MACH = .165

SECTION (1) WING

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r/b
 .000 -.1099 -.2738 -.1712 -.0632 -.1116 -.1651
 .334 -.2818 -.3592 -.4134 -.3078 -.2080 -.2276
 .520 -.4827 -.4937 -.4629 -.3437 -.3689 -.0690
 .663 -.6740 -.2418 -.4922 -.4108 -.6025 -.0555
 .873 -.1767 -.6651 -.6737 -.4981 -.3187 -.1702

MACH (1) = .165 ALPHA (3) = 4.980 RN/L = 1.200 MACH = .165

SECTION (1) WING

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r/b
 .000 -.2009 -.3500 -.2175 -.0883 -.1411 -.1643
 .334 -.4613 -.5232 -.5057 -.3481 -.2224 -.2465
 .520 -.6191 -.5763 -.4857 -.3492 -.2854 -.1779
 .663 -.9628 -.4168 -.5678 -.4488 -.6107 -.1025
 .873 -.5667 -.8390 -.7958 -.6050 -.4226 -.2557

PARAMETRIC DATA

BETA = .000 PTN/P = 1.300
 M/B = .286 BD/FLAP = -18.000
 ELEVON = 15.000

(ADVU35)

CA57-B B16C5F1 J40 WTE18 WING UPPER SURFACE
MACH (1) = .165 ALPHA (4) = 9.985 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/Y/B

.000	-.2705	-.4258	-.2708	-.1229	-.1834	-.1952
.334	-.7781	-.5967	-.5837	-.3782	-.2600	-.2872
.520	-.7285	-.6347	-.5375	-.4044	-.3559	-.1630
.663	-1.2498	-.6107	-.6683	-.5245	-.6489	-.0987
.873	-1.1637	-1.0559	-.9666	-.7806	-.6543	-.5822

MACH (1) = .165 ALPHA (5) = 14.970 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/Y/B

.000	-.3031	-.4637	-.2732	-.1216	-.1568	-.1856
.334	-1.2693	-.8145	-.7106	-.4191	-.2971	-.3261
.520	-.8130	-.7102	-.6343	-.4365	-.4567	-.2018
.663	-1.4030	-.7524	-.6745	-.4718	-.4087	-.2259
.873	-2.3841	-1.4244	-1.1637	-1.0245	-.9389	-.7870

MACH (1) = .165 ALPHA (6) = 19.580 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/Y/B

.000	-.3508	-.5284	-.3381	-.1950	-.2545	-.2858
.334	-1.5884	-.9586	-.8540	-.6090	-.5299	-.4895
.520	-.7790	-.7177	-.6596	-.8195	-.8145	-.4522
.663	-1.2039	-1.1296	-1.1591	-1.0668	-.9060	-.7452
.873	-1.0644	-1.0606	-1.0573	-1.0658	-.9785	-.8985

DATE 06 OCT 74

TABULATED SOURCE DATA - QAS7B

PAGE 149

QAS7-B 816C5F1 J41 W07E18 WING UPPER SURFACE

(RDVU52) (12 NOV 73)

REFERENCE DATA

WREF = 4.4175 SQ.FT. WARP = 43.5940 IN.
LREF = 19.2300 IN. LARP = .0000 IN.
WREF = 37.9350 IN. ZWARP = -.4050 IN.
SCALE = .0405

PARAMETRIC DATA

BETA = .000 P1N/P = 1.300
M/B = .286 BDFLAP = -18.000
ELEVON = .000

MACH (1) = .165 ALPHA (1) = -4.005 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 -.0406 -.1702 -.0888 .0171 -.0277 -.1381
.334 -.1182 -.2026 -.2997 -.1606 -.0709 .0766
.520 -.2424 -.3115 -.3281 -.1553 -.0901 .0893
.663 -.3185 -.3146 -.2669 -.1531 .0568 .1341
.875 -.2795 -.4190 -.4608 -.2544 -.1047 .0191

MACH (1) = .165 ALPHA (2) = -.005 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 -.0834 -.2241 -.1289 -.0143 -.0565 -.1308
.334 -.2363 -.2955 -.2936 -.1858 -.0812 .0786
.520 -.4122 -.4081 -.3735 -.1801 -.0958 .0782
.663 -.5635 -.4503 -.3361 -.2160 -.0053 .1227
.875 -.5288 -.5578 -.6131 -.2877 -.1125 .0120

MACH (1) = .165 ALPHA (3) = 4.935 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 -.1939 -.3378 -.2303 -.0292 -.0792 -.1306
.334 -.3956 -.4296 -.3778 -.2313 -.1139 .0540
.520 -.5409 -.4688 -.3831 -.1942 -.1003 -.0011
.663 -.8358 -.5616 -.3885 -.2297 -.0354 .0823
.875 -.8937 -.7288 -.6718 -.3406 -.1550 -.0230

DATE 08 OCT 74 TABULATED SOURCE DATA - CA57B

(RDVUS2)

CA57-B 816C5F1 J41 WTE18 WING UPPER SURFACE

MACH (1) = .165 ALPHA (4) = 9.990 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B
.000 -.2761 -.4116 -.2356 -.0605 -.1018 -.1498
.334 -.0031 -.3335 -.4426 -.2725 -.1526 .0455
.520 -.0646 -.5538 -.4611 -.2626 -.1437 .0046
.663 -1.1032 -.7283 -.4711 -.2975 -.0901 .0346
.873 -1.2993 -.9147 -.7554 -.4318 -.2644 -.1211

MACH (1) = .165 ALPHA (5) = 14.990 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B
.000 -.2966 -.4957 -.2705 -.0855 -.1123 -.1521
.334 -1.1486 -.7001 -.5636 -.3180 -.1768 .0266
.520 -.7677 -.6166 -.5045 -.3162 -.1998 -.0126
.663 -1.2760 -.8305 -.5163 -.3197 -.0461 .0768
.873 -1.6099 -1.0865 -.8554 -.6939 -.5432 -.3126

MACH (1) = .165 ALPHA (6) = 19.990 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B
.000 -.3662 -.5302 -.3461 -.1565 -.2226 -.2217
.334 -1.4991 -.8668 -.6882 -.4245 -.3182 -.1024
.520 -.7462 -.6892 -.7707 -.5948 -.5517 -.2148
.663 -1.2837 -1.3366 -1.0350 -.9292 -.3505 -.2953
.873 -1.2177 -1.1384 -1.0982 -1.0195 -.8341 -.5619



REFERENCE DATA

MACF = 4.4180 84.FT. MACP = 43.5940 IN.

LREF = 18.2500 IN. MACP = .0000 IN.

MACF = 37.9350 IN. MACP = -.4050 IN.

SCALE = .0405

BETA = .000 PTN/P = 1.000

H/B = .286 BOFLAP = -18.000

ELEVON = .000

MACH (1) = .165 ALPHA (1) = -4.000 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/B

.000 -.0466 -.1828 -.0928 .0072 -.0354 -.1183

.334 -.1259 -.2108 -.2540 -.1858 -.0737 .0554

.520 -.2533 -.3210 -.3387 -.1625 -.1268 .0775

.643 -.3220 -.3267 -.2677 -.1126 -.0170 .1006

.873 -.3102 -.4278 -.6245 -.2777 -.0997 .0104

MACH (1) = .165 ALPHA (2) = -.005 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/B

.000 -.0868 -.2422 -.1390 -.0190 -.0719 -.1446

.334 -.2389 -.3092 -.3110 -.1883 -.0912 .0494

.520 -.4218 -.4185 -.3815 -.1837 -.1255 .0607

.643 -.5783 -.4733 -.3365 -.1455 -.0364 .0926

.873 -.5664 -.5717 -.7111 -.5053 -.1431 .0058

MACH (1) = .165 ALPHA (3) = 4.985 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/B

.000 -.1833 -.3139 -.1897 -.0602 -.1183 -.1510

.334 -.4084 -.4354 -.3829 -.2579 -.1187 .0354

.520 -.5643 -.4890 -.3876 -.2035 -.1148 .0249

.643 -.8579 -.6124 -.3910 -.1843 -.0693 .0562

.873 -.8302 -.7540 -.7403 -.3633 -.1825 -.0357

(00VU53)

0A37-B B18C5F1 J41 W07E10 WING UPPER SURFACE

MACH (1) = .165 ALPHA (4) = 9.980 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000	-.2748	-.4213	-.2290	-.0641	-.1002	-.1640
.334	-.0870	-.5289	-.4630	-.2752	-.1332	.0276
.520	-.0533	-.5166	-.4576	-.2634	-.1584	.0026
.663	-1.1099	-.7317	-.4729	-.2618	-.0969	.0246
.873	-1.3216	-.9206	-.7879	-.4496	-.2738	-.1348

MACH (1) = .165 ALPHA (5) = 14.985 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000	-.3047	-.5004	-.2454	-.0930	-.1405	-.1587
.334	-1.1431	-.7086	-.5737	-.3106	-.1232	.0206
.520	-.7266	-.5917	-.9031	-.2931	-.2104	-.0074
.663	-1.2737	-.6184	-.5170	-.3039	-.0493	.0746
.873	-1.6231	-1.0958	-.8625	-.7162	-.5497	-.3138

MACH (1) = .165 ALPHA (6) = 19.980 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000	-.3518	-.5093	-.3288	-.1693	-.2735	-.2430
.334	-1.3120	-.8691	-.6871	-.4363	-.1939	-.1029
.520	-.7308	-.6741	-.7724	-.6207	-.5746	-.2722
.663	-1.2748	-1.2512	-1.1605	-.5262	-.4220	-.3521
.873	-1.1365	-1.0927	-1.0480	-1.0222	-.8472	-.6421



DATE 08 OCT 74

TABULATED SOURCE DATA - CASHB

PAGE 153

CASHB-B DISC5F1 J41 W47E18 WING UPPER SURFACE (RDVUSS) (12 NOV 73)

ALFACP-L-111A

REF = 4.4120 83.FT. XMRP = 43.5940 IN.
LREF = 19.2500 IN. RMRP = .0000 IN.
BREF = 37.9390 IN. ZMRP = -.4050 IN.
SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.300
M/B = .039 BOFLAP = -18.000
CLEAN = .000

MACH (1) = .165 ALPHA (1) = 9.990 RM/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/R
.000 -.2478 -.4233 -.2304 -.0710 -.1175 -.1690
.334 -.7010 -.5429 -.4554 -.2717 .0169 .0188
.520 -.7010 -.5441 -.4371 -.2897 -.3267 .0083
.663 -1.0935 -.7135 -.4565 -.3078 -.0677 .0676
.873 -1.3651 -.9426 -.7972 -.4667 -.2992 -.2165

MACH (1) = .165 ALPHA (2) = 14.990 RM/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/R
.000 -.3115 -.5251 -.2668 -.1093 -.1504 -.1753
.334 -1.2323 -.7172 -.5664 -.3034 .0080 .0034
.520 -.7138 -.6035 -.5219 -.3445 -.2297 -.0918
.663 -1.3956 -.7577 -.4757 -.3546 -.1394 -.0421
.873 -2.2639 -1.6586 -1.1943 -.8948 -.6619 -.3804

MACH (1) = .165 ALPHA (3) = 19.995 RM/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/R
.000 -.3779 -.5794 -.3895 -.2412 -.2820 -.2541
.334 -1.6122 -.9022 -.7197 -.5291 -.1658 -.1338
.520 -.7635 -.7510 -.8621 -.7240 -.6250 -.4349
.663 -1.7649 -1.3425 -1.1056 -.9412 -.5676 -.4410
.873 -1.2344 -1.1794 -1.1563 -1.0398 -.8905 -.6423

DATE 08 OCT 74 TABULATED SOURCE DATA - CA37B

CA37-B B16C3F1 J41 WATE18 WING UPPER SURFACE (RDVUS6) (12 NOV 73)

REFERENCE DATA

BAEF = 4.4120 82.57. XMRP = 43.5940 IN.
LREF = 19.2300 IN. YMRP = .0000 IN.
BAEF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .3405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.000
H/B = .039 BDFLAP = -18.000
ELEVON = .000

MACH (1) = .165 ALPHA (1) = 10.005 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
21/B						
.000	-.2531	-.4300	-.2271	-.0795	-.1224	-.1642
.334	-.6975	-.5560	-.4497	-.2636	.0126	-.0119
.520	-.6952	-.5427	-.4434	-.2778	-.1287	-.0902
.663	-1.0889	-.7201	-.4606	-.3087	-.0781	.0513
.873	-1.3774	-.9539	-.8174	-.4845	-.3213	-.2465

MACH (1) = .165 ALPHA (2) = 15.020 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
21/B						
.000	-.3307	-.5297	-.2606	-.1299	-.1803	-.1708
.334	-1.2376	-.7529	-.5347	-.3146	-.0161	-.0049
.520	-.7214	-.5962	-.5434	-.3500	-.2190	-.1633
.663	-1.3199	-.7871	-.5255	-.3457	-.1409	-.0504
.873	-2.6486	-1.6683	-1.2715	-.8439	-.6057	-.4108

MACH (1) = .165 ALPHA (3) = 20.015 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
21/B						
.000	-.3674	-.5701	-.3848	-.2332	-.2773	-.2537
.334	-1.5839	-.9062	-.7255	-.5216	-.2698	-.1295
.520	-.7532	-.7518	-.8700	-.7176	-.5997	-.4007
.663	-1.7199	-1.3522	-1.1257	-.9764	-.5771	-.4503
.873	-1.2145	-1.1020	-1.1390	-1.0443	-.8952	-.6437



C437-B 816C5F1 J41 W8TE18 WING UPPER SURFACE

(ADJUST) (12 NOV 73)

REFERENCE DATA

WREF = 4.4120 84.FT. XWRP = 43.5940 IN.
LWREF = 19.2300 IN. YWRP = .0000 IN.
BREF = 37.9350 IN. ZWRP = -.4050 IN.
SCALE = .0405

MACH (1) = .165 ALPHA (1) = -3.960 RN/L = 1.200 MACH = .165

SECTION (1) WING

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B
.000 -.0628 -.2050 -.1141 -.0101 -.0609 -.1768
.334 -.1553 -.2433 -.2808 -.1949 -.0338 .0701
.520 -.2913 -.3617 -.3783 -.1919 -.1558 .0205
.663 -.3646 -.3619 -.3175 -.2422 -.0450 .0713
.873 -.3334 -.4675 -.6657 -.3253 -.1510 -.0312

MACH (1) = .165 ALPHA (2) = -.005 RN/L = 1.200 MACH = .165

SECTION (1) WING

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B
.000 -.1102 -.2666 -.1504 -.0135 -.0806 -.1372
.334 -.2618 -.3253 -.3246 -.2023 -.0471 .0696
.520 -.4370 -.4304 -.3993 -.2005 -.1274 .0254
.663 -.6066 -.4875 -.3682 -.2560 -.0354 .0693
.873 -.5524 -.5913 -.7330 -.3268 -.1676 -.0156

MACH (1) = .165 ALPHA (3) = 4.980 RN/L = 1.200 MACH = .165

SECTION (1) WING

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B
.000 -.2417 -.3896 -.2136 -.0450 -.0844 -.1565
.334 -.5033 -.5322 -.4383 -.2335 -.0697 .0651
.520 -.5806 -.5015 -.3941 -.2305 -.1297 -.0451
.663 -.8931 -.6278 -.4243 -.2946 -.0753 .0656
.873 -.9703 -.7712 -.7865 -.3937 -.1934 -.0597

PARAMETRIC DATA

BETA = .000 PTN/P = 1.300
M/B = .125 BDFLAP = -18.000
ELEVON = .000

(RDVU57)

CA37-B 816C3F1 J41 WOTE18 WING UPPER SURFACE

MACH (1) = .165 ALPHA (4) = 9.995 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000	-.2473	-.4064	-.2131	-.0658	-.1138	-.1585
.334	-.6833	-.5372	-.4485	-.2630	-.1159	.0176
.520	-.6884	-.5797	-.4523	-.2816	-.1654	-.0242
.663	-1.1025	-.7501	-.4934	-.3509	-.0869	.0850
.875	-1.3827	-.9404	-.8166	-.4780	-.2931	-.1511

MACH (1) = .165 ALPHA (5) = 15.020 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000	-.3166	-.4979	-.2552	-.0988	-.1390	-.1630
.334	-1.1875	-.7242	-.5854	-.3194	-.1594	.0103
.520	-.7556	-.6208	-.5436	-.3626	-.2315	-.1297
.663	-1.2417	-.7653	-.5017	-.3289	-.1226	-.0336
.875	-1.7927	-1.1396	-.9037	-.6975	-.5225	-.3565

MACH (1) = .165 ALPHA (6) = 19.995 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000	-.3532	-.5388	-.3470	-.1857	-.2662	-.2412
.334	-1.5590	-.8839	-.6901	-.4511	-.3143	-.1282
.520	-.7611	-.7178	-.8178	-.6675	-.0067	-.3453
.663	-1.4350	-1.3646	-1.1183	-.9637	-.4637	-.3543
.875	-1.2864	-1.1959	-1.1592	-1.0875	-.8986	-.6286

REFERENCE DATA
 XREF = 4.4120 89.FT. XWAP = 43.5540 IN.
 LREF = 18.2300 IN. WAP = .0000 IN.
 BREF = 37.9350 IN. ZWAP = -.4030 IN.
 SCALE = .0403

PARAMETRIC DATA
 BETA = .000 PTN/P = 1.000
 H/B = .125 BDFLAP = -18.000
 ELEVON = .000

MACH (1) = .165 ALPHA (1) = -3.995 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z1/B						
.000	-.0601	-.2043	-.1002	-.0048	-.0343	-.1586
.334	-.1469	-.2410	-.2700	-.1719	-.0468	.1046
.520	-.2744	-.3560	-.3693	-.1683	-.1432	.0277
.663	-.3501	-.3593	-.3064	-.2244	-.0392	.0821
.875	-.3466	-.4651	-.5987	-.3271	-.1465	-.0140

MACH (1) = .165 ALPHA (2) = -.003 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z1/B						
.000	-.1312	-.2602	-.1571	-.0169	-.0888	-.1624
.334	-.2633	-.3352	-.3237	-.2020	-.0777	.0817
.520	-.4394	-.4412	-.4002	-.1972	-.1329	.0132
.663	-.6001	-.4960	-.3681	-.2555	-.0443	.0862
.875	-.6042	-.5988	-.7180	-.3316	-.1841	-.0170

MACH (1) = .165 ALPHA (3) = 4.995 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z1/B						
.000	-.2376	-.3766	-.2029	-.0534	-.0912	-.1571
.334	-.4962	-.5268	-.4286	-.2229	-.0819	.0601
.520	-.5759	-.5043	-.3915	-.2152	-.1247	-.0456
.663	-.8717	-.6219	-.4168	-.2793	-.0591	.0724
.875	-.9783	-.7732	-.7667	-.3857	-.2014	-.0544

REFERENCE DATA

MACF = 4.4120 84.FT.

MACF = 19.2300 IN.

MACF = 37.8350 IN.

SCALE = .0405

XMRP = 43.3940 IN.

YMRP = .0000 IN.

ZMRP = -.4050 IN.

BETA = .000

M/B = .125

ELEVON = .000

PTN/P = 1.500

BOFLAP = -.18.000

PARAMETRIC DATA

MACH (1) = .165

ALPHA (1) = -4.025

RM/L = 1.200

MACH = .165

SECTION (1) WING

X/C

.1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000	-.0645	-.2054	-.0185	-.0435	-.0497	-.1652
.334	-.1618	-.2301	-.4575	-.2176	-.1427	.0035
.520	-.3307	-.6555	-.3370	-.2038	-.1069	-.0306
.663	-.5961	-.3967	-.3347	-.2997	-.0476	.0753
.873	-.3604	-.4847	-.7213	-.3535	-.1251	-.0156

MACH (1) = .165

ALPHA (2) = -.010

RM/L = 1.200

MACH = .165

SECTION (1) WING

X/C

.1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000	-.1291	-.2709	-.0745	-.0703	-.0704	-.1499
.334	-.3263	-.3698	-.5143	-.2556	-.1484	-.0208
.520	-.6336	-.7545	-.4051	-.2372	-.1306	-.0503
.663	-.8253	-.5082	-.3681	-.2451	-.0555	.0666
.873	-.6252	-.6161	-.7784	-.3626	-.1307	-.0114

MACH (1) = .165

ALPHA (3) = 4.955

RM/L = 1.200

MACH = .165

SECTION (1) WING

X/C

.1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000	-.2379	-.3497	-.1315	-.1069	-.1051	-.1525
.334	-.5341	-.5107	-.5880	-.3123	-.1927	.0028
.520	-1.0468	-.9168	-.5102	-.3328	-.2034	-.0875
.663	-1.1028	-.6665	-.4285	-.3013	-.1207	-.0198
.873	-1.0123	-.7950	-.7858	-.4120	-.1905	-.0628

DATE 08 OCT 74 TABULATED SOURCE DATA - CA37B

(RDVUS9)

CA37-B B16C5F1 J42 WATE18 WING UPPER SURFACE

MACH (1) = .165 ALPHA (4) = 9.955 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/B

.000 -.3311 -.4380 -.1420 -.1238 -.0983 -.1393
.334 -.7489 -.8366 -.6492 -.3652 -.1798 .0465
.520 -1.2065 -1.0425 -.5955 -.3563 -.1674 .0490
.663 -1.3419 -.7907 -.5640 -.4089 -.1092 .0281
.873 -1.3501 -.9029 -.6812 -.4536 -.3204 -.1694

MACH (1) = .165 ALPHA (3) = 14.980 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/B

.000 -.4074 -.6208 -.2629 -.1500 -.1299 -.1419
.334 -.7801 -.6940 -.7503 -.3789 -.2282 -.0202
.520 -1.1689 -1.1550 -.6938 -.4748 -.2487 -.0298
.663 -1.5250 -.9984 -.7616 -.6342 -.2075 -.1125
.873 -2.1748 -1.8141 -1.5476 -1.2817 -.7995 -.4715

MACH (1) = .165 ALPHA (6) = 19.975 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/B

.000 -.4605 -.6337 -.3826 -.2377 -.1544 -.1534
.334 -.8507 -.6538 -.7732 -.4168 -.2590 -.1248
.520 -.9538 -1.3290 -.9670 -.8028 -.2833 -.0711
.663 -2.0929 -1.6983 -1.3718 -1.2640 -.6360 -.5224
.873 -1.7237 -1.5436 -1.4965 -1.4013 -1.1607 -.8077

CA57-B B16C5F1 J42 W07E10 WING UPPER SURFACE (0DVU60) (12 NOV 73)

REFERENCE DATA

SREF = 4.4120 84.FT. XMRP = 43.5940 IN.
 LREF = 19.2300 IN. LMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

MACH (1) = .165 ALPHA (1) = -4.010 RN/L = 1.200 MACH = .165
 SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r/B

.000 -.0354 -.1887 -.0370 -.0354 -.0484 -.1531
 .334 -.1324 -.1963 -.4078 -.1866 -.1173 .0145
 .520 -.2933 -.5799 -.2699 -.1690 -.0914 -.0128
 .663 -.5099 -.4020 -.2976 -.2038 -.0408 .0827
 .873 -.3364 -.4660 -.7159 -.3331 -.1079 -.0056

MACH (1) = .165 ALPHA (2) = -.010 RN/L = 1.200 MACH = .165
 SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r/B

.000 -.1556 -.2812 -.0952 -.0477 -.0525 -.1422
 .334 -.2954 -.3366 -.4563 -.2238 -.1313 -.0128
 .520 -.5828 -.6683 -.3592 -.2078 -.1136 -.0291
 .663 -.7409 -.4803 -.3347 -.2222 -.0620 .0593
 .873 -.6052 -.5961 -.7700 -.3498 -.1238 -.0057

MACH (1) = .165 ALPHA (3) = 4.965 RN/L = 1.200 MACH = .165
 SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r/B

.000 -.2528 -.3496 -.1431 -.0808 -.0628 -.1420
 .334 -.4920 -.4590 -.5219 -.2689 -.1559 .0009
 .520 -.9659 -.8127 -.4482 -.2777 -.1575 -.0528
 .663 -1.0.04 -.5995 -.3877 -.2731 -.1198 -.0424
 .873 -.9668 -.7568 -.7571 -.3927 -.1760 -.0486

PARAMETRIC DATA

BETA = .000 PTN/P = 1.300
 H/B = .125 BOFLAP = -18.000
 ELEVON = .000

DATE 08 OCT 74 TABULATED SOURCE DATA - CA37B

(RDYU60)

CA37-B B16C5F1 J42 W8TE18 WING UPPER SURFACE
MACH (1) = .165 ALPHA (4) = 9.960 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 -.2914 -.4531 -.1752 -.1214 -.1322 -.1552
.334 -.7018 -.8047 -.8373 -.3310 -.1877 .0196
.520 -1.1290 -.9357 -.5479 -.3184 -.1709 -.0118
.663 -1.2313 -.7210 -.5116 -.3549 -.0594 .0275
.873 -1.3090 -.8452 -.6346 -.4574 -.2993 -.1628

MACH (1) = .165 ALPHA (5) = 14.960 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 -.3716 -.5542 -.2347 -.1684 -.1505 -.1601
.334 -.7929 -.6459 -.7015 -.4017 -.2303 -.0499
.520 -1.1692 -1.0351 -.6491 -.4874 -.2530 -.0440
.663 -1.4170 -.8687 -.6701 -.5732 -.2388 -.1704
.873 -2.6341 -1.8729 -1.4142 -1.3280 -.6986 -.3955

MACH (1) = .165 ALPHA (6) = 19.965 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 -.4303 -.6321 -.3377 -.2487 -.1970 -.1778
.334 -.8701 -.6438 -.7640 -.4545 -.3051 -.1545
.520 -.9622 -1.2483 -.9675 -.7781 -.3112 -.1142
.663 -2.0847 -1.6222 -1.2767 -1.0124 -.6792 -.3453
.873 -1.4249 -1.3408 -1.2904 -1.1220 -.8828 -.6538

REFERENCE DATA

BREF = 4.4120 84.FT. XWMP = 43.3940 IN.
LREF = 19.2300 IN. RWMP = .0000 IN.
BREF = 37.9350 IN. ZWMP = -.4050 IN.
SCALE = .0405

MACH (1) = .165 ALPHA (1) = -4.030 RN/L = 1.200 MACH = .165

SECTION (1) WING

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/H

.000 -.0457 -.1817 -.0184 -.0241 -.0591 -.1578
.334 -.1109 -.1658 -.3433 -.1716 -.1221 -.0112
.520 -.2645 -.4608 -.2552 -.1802 -.1015 -.0367
.663 -.4727 -.3457 -.2676 -.1959 -.0475 -.0769
.875 -.3420 -.4570 -.7289 -.3468 -.1053 -.0060

MACH (1) = .165 ALPHA (2) = -.025 RN/L = 1.200 MACH = .165

SECTION (1) WING

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/H

.000 -.1461 -.2698 -.0805 -.0471 -.0755 -.1518
.334 -.2699 -.2978 -.3813 -.2022 -.1333 -.0415
.520 -.5259 -.5478 -.3124 -.1958 -.1184 -.0504
.663 -.6748 -.4192 -.2954 -.2180 -.0872 -.0068
.875 -.5528 -.5814 -.7817 -.3508 -.1266 -.0123

MACH (1) = .165 ALPHA (3) = 4.980 RN/L = 1.200 MACH = .165

SECTION (1) WING

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/H

.000 -.2217 -.3417 -.1195 -.0755 -.0907 -.1560
.334 -.4641 -.4148 -.4424 -.2276 -.1522 -.0413
.520 -.8638 -.6810 -.4017 -.2298 -.1299 -.0427
.663 -.9164 -.5153 -.3535 -.2532 -.1350 -.0911
.875 -.9399 -.7208 -.7462 -.3784 -.1707 -.0439

PARAMETRIC DATA

BETA = .000 PTN/P = 1.000
H/B = .125 BDFLAP = -18.000
ELEVON = .000

(RDVU61)

MACH (1) = .165 ALPHA (4) = 9.965 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r/b

.000	-.2728	-.4232	-.1536	-.1194	-.1421	-.1698
.334	-.6474	-.5277	-.5560	-.3249	-.1936	-.0055
.520	-1.0463	-.8086	-.4741	-.3188	-.1958	-.0742
.663	-1.1608	-.6425	-.4206	-.3424	-.1868	-.1373
.873	-1.2160	-.7985	-.5980	-.4332	-.3074	-.1513

MACH (1) = .165 ALPHA (5) = 14.965 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r/b

.000	-.3554	-.5162	-.2107	-.1708	-.1865	-.1929
.334	-.7388	-.6199	-.6318	-.3863	-.2618	-.0716
.520	-1.0950	-.9002	-.6120	-.4635	-.3141	-.1108
.663	-1.2949	-.7008	-.5665	-.5034	-.3411	-.3039
.873	-2.5650	-1.8360	-1.2415	-1.1917	-.6144	-.4026

MACH (1) = .165 ALPHA (6) = 19.970 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r/b

.000	-.4110	-.5828	-.3075	-.2733	-.2455	-.2334
.334	-.7978	-.5939	-.7123	-.5006	-.3893	-.2060
.520	-.8557	-1.1130	-.8175	-.6625	-.4557	-.2237
.663	-1.7325	-1.2495	-.9462	-.8447	-.5720	-.4934
.873	-1.0736	-1.0092	-.9257	-.7235	-.6325	-.5132

REFERENCE DATA

WREF = 4.4120 84. FT.

LREF = 10.2300 IN.

BREF = 37.9350 IN.

SCALE = .0405

WARP = 43.5940 IN.

TWAP = .0000 IN.

ZWAP = -.4050 IN.

BETA = .000

H/B = .039

ELEVON = .000

PTN/P = 1.500

BDFLAP = -10.000

PARAMETRIC DATA

MACH (1) = .165

ALPHA (1) = 10.000

RN/L = 1.200

MACH = .165

SECTION (1) WING

X/C

.1500 .3000 .4500 .6000 .7500 .9000

Z/H/B

.000 -.2857 -.4449 -.1560 -.1616 -.1754 -.1594

.334 -.7855 -.7070 -.7124 -.3805 -.2094 .0323

.520 -1.2551 -1.0813 -.6129 -.3816 -.1859 .0320

.663 -1.4311 -.8081 -.6282 -.4574 -.0856 .0042

.873 -1.4079 -.9322 -.7093 -.5935 -.4101 -.2395

MACH (1) = .165

ALPHA (2) = 14.980

RN/L = 1.200

MACH = .165

SECTION (1) WING

X/C

.1500 .3000 .4500 .6000 .7500 .9000

Z/H/B

.000 -.3303 -1.0644 -1.0172 -.1583 -1.5188 -.3329

.334 -.3343 -.5099 -1.6814 -.1710 -1.1587 -1.0093

.520 -.8503 -.7270 -.2022 -.3822 -.2085 -.1544

.663 -1.2030 -6.5174 -.7517 -.568270.0000 -.0286

.873 -1.6995-10.5136 -.7257 -.9000-12.9145 -.0196

MACH (1) = .165

ALPHA (3) = 19.995

RN/L = 1.200

MACH = .165

SECTION (1) WING

X/C

.1500 .3000 .4500 .6000 .7500 .9000

Z/H/B

.000 -.3911 -.5865 -.2343 -.2369 -.1666 -.1286

.334 -.9005 -.8404 -.7524 -.4036 -.2609 -.1176

.520 -.9060 -1.3711 -1.0409 -.7803 -.2306 -.0376

.663 -2.6173 -1.6410 -1.6032 -1.4297 -.6707 -.5041

.873 -1.7908 -1.6426 -1.5753 -1.5269 -1.3249 -.6710



TABULATED SOURCE DATA - C457B
C457-B B16C5F1 J-2 WATE10 WING UPPER SURFACE (RDVU63) (12 NOV 73)

REFERENCE DATA

REF = 4.4120 94.FT. WWP = 43.5940 IN.
LWL = 19.2300 IN. RWL = .0000 IN.
REF = 37.9350 IN. ZWP = -.4050 IN.
SCALE = .0405

MACH (1) = .165 ALPHA (1) = 9.995 RN/L = 1.200 MACH = .165

SECTION (1) WING

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 -.2675 -.4273 -.1129 -.1469 -.1736 -.1685
.334 -.7441 -.6532 -.6590 -.3479 -.1968 .0229
.520 -1.1752 -.9646 -.5408 -.3465 -.1887 .0032
.663 -1.2934 -.7329 -.5431 -.4173 -.0678 -.0176
.873 -1.3055 -.8714 -.6790 -.5382 -.3702 -.1797

MACH (1) = .165 ALPHA (2) = 14.985 RN/L = 1.200 MACH = .165

SECTION (1) WING

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 -.3312 -.5062 -.0917 -.1807 -.1623 -.1801
.334 -.8374 -.6803 -.7220 -.4069 -.2476 -.0615
.520 -1.1388 -1.1075 -.7265 -.5697 -.2574 -.0275
.663 -1.6034 -.9084 -.8245 -.7598 -.3719 -.3268
.873 -1.7537 -1.6172 -1.5072 -1.3697 -.8882 -.4991

MACH (1) = .165 ALPHA (3) = 20.000 RN/L = 1.200 MACH = .165

SECTION (1) WING

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z1/B

.000 -.3991 -.5972 -.1934 -.2554 -.2065 -.1832
.334 -.9032 -.6370 -.7930 -.4878 -.3561 -.1749
.520 -.9612 -1.3491 -1.0629 -.8147 -.3267 -.1671
.663 -2.4687 -1.7756 -1.3911 -1.1120 -.7633 -.5296
.873 -1.4753 -1.4213 -1.3688 -1.1872 -.5410 -.7233

PARAMETRIC DATA

BETA = .000 PTN/P = 1.300
M/B = .039 BOFLAP = -18.000
ELEVON = .000

REFERENCE DATA

WREF = 4.4120 83.FT.	ZWEP = 43.5940 IN.	BETA = .000	PTN/P = 1.000
LREF = 10.2300 IN.	LEWP = .0000 IN.	M/B = .039	BOFLAP = -18.000
WREF = 37.9350 IN.	ZWEP = -40.50 IN.	ELEVON = .000	
SCALE = .0403			

DATE 06 OCT 74

TABULATED SOURCE DATA - CA7/B

PAGE 167

CA37-B B16C3F1 J42 WATE18 WING UPPER SURFACE (PDVUS6) (12 NOV 73)

REFERENCE DATA

SREF = 4.4180 64.FT. SREF = 43.9640 IN.
 LREF = 19.2300 IN. PREF = .0000 IN.
 WREF = 37.9350 IN. ZREF = -.4050 IN.
 SCALE = .0403

PARAMETRIC DATA

BETA = .000 PTH/P = 1.500
 H/B = .286 BOFLAP = -16.000
 ELEVON = .000

MACH (1) = .165 ALPHA (1) = -4.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/B

.000 - .0314 - .1874 .0194 -.0453 -.0143 -.1248
 .334 - .1402 -.2005 -.4310 -.1772 -.0826 .0605
 .520 -.3115 -.6111 -.2936 -.1620 -.0704 .0162
 .643 -.5025 -.3697 -.2062 -.1942 -.0147 .1117
 .875 -.3306 -.4455 -.7136 -.3044 -.0876 .0182

MACH (1) = .165 ALPHA (2) = .010 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/B

.000 -.1009 -.2376 -.0330 -.0714 -.0491 -.1313
 .334 -.2891 -.3434 -.4817 -.2315 -.1140 .0086
 .520 -.5947 -.7223 -.3776 -.2102 -.1064 -.0216
 .643 -.7109 -.5087 -.3441 -.2217 -.0359 .0808
 .875 -.5844 -.5787 -.7786 -.3345 -.1114 .0027

MACH (1) = .165 ALPHA (3) = 5.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/B

.000 -.1782 -.3350 -.0787 -.1016 -.1081 -.1245
 .334 -.5011 -.4807 -.5504 -.2864 -.1559 -.0085
 .520 -.9099 -.8555 -.4783 -.2849 -.1677 -.0743
 .643 -.9593 -.6186 -.7903 -.2125 -.1002 -.0003
 .875 -.8471 -.7428 -.7644 -.5786 -.1611 -.3390

DATE 08 OCT 74 TABULATED SOURCE DATA - QAS7B QAS7-B B16C5F1 J42 WTE18 WING UPPER SURFACE (RDVU68)

MACH (1) = .165 ALPHA (4) = 9.960 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/Y

.000 -.2526 -.4110 -.1023 -.1384 -.1401 -.1274
.334 -.6634 -.6119 -.6700 -.3372 -.1617 .0519
.520 -1.1896 -.9820 -.5693 -.3611 -.1630 .0453
.663 -1.1910 -.7506 -.5175 -.4011 -.1177 .0291
.875 -1.3164 -.6634 -.7503 -.4530 -.2593 -.1027

MACH (1) = .165 ALPHA (5) = 15.010 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/Y

.000 -.3216 -.4837 -.1089 -.1687 -.1457 -.1649
.334 -.7963 -.6955 -.7214 -.3406 -.2203 -.0363
.520 -1.2509 -1.0852 -.6347 -.4502 -.2212 -.0166
.663 -1.4202 -.6912 -.6674 -.5064 -.1249 -.0384
.875 -1.5964 -1.2893 -1.2328 -.8501 -.4902 -.2486

MACH (1) = .165 ALPHA (6) = 19.990 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/Y

.000 -.3640 -.5756 -.1430 -.2137 -.1520 -.1663
.334 -.8617 -.6796 -.7603 -.4445 -.2802 -.1084
.520 -1.0930 -1.2940 -.9260 -.7676 -.3199 -.0629
.663 -1.8729 -1.4714 -1.2246 -1.1527 -.5649 -.5072
.875 -1.5756 -1.4445 -1.3675 -1.2299 -1.0141 -.6832

MACH (1) = .165 ALPHA (1) = -3.990 RN/L = 1.200 MACH = .165

SECTION (1) WING		DEPENDENT VARIABLE CP	
X/C			
Z/r/B			
.000	-.0415	-.1587	.0273
.334	-.1192	-.1689	-.3751
.520	-.2560	-.5233	-.2641
.663	-.4373	-.3627	-.2696
.873	-.3170	-.4312	-.7247
			-.0347
			-.0221
			-.1257
			.0334
			-.0676
			-.0559
			.0208
			-.0107
			.1069
			.0167

MACH (1) = .165 ALPHA (2) = .005 RN/L = 1.200 MACH = .165

SECTION (1) WING		DEPENDENT VARIABLE CP	
X/C			
Z/r/B			
.000	-.0923	-.2266	-.0139
.334	-.2616	-.3074	-.4259
.520	-.5398	-.6263	-.3264
.663	-.6240	-.4463	-.3051
.873	-.5389	-.5572	-.7908
			-.0629
			-.0501
			-.1246
			.0169
			-.0857
			-.0825
			.0007
			-.0351
			.0807
			.0052

MACH (1) = .165 ALPHA (3) = 5.010 RN/L = 1.200 MACH = .165

SECTION (1) WING		DEPENDENT VARIABLE CP	
X/C			
Z/r/B			
.000	-.1749	-.3216	-.0631
.334	-.4762	-.4401	-.4961
.520	-.9141	-.7695	-.4171
.663	-.8825	-.5621	-.3516
.873	-.9161	-.7102	-.7556
			-.0997
			-.1120
			-.1300
			-.0048
			-.1275
			-.1346
			-.0389
			-.0978
			-.0152
			-.1521
			-.0352

(RDYU69)

CA37-B B16C3F1 J42 WOTE18 WING UPPER SURFACE

MACH (1) = .165 ALPHA (4) = 10.010 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r/B

.000 -.2451 -.4115 -.0915 -.1335 -.1541 -.1418
.334 -.6455 -.5095 -.6262 -.3230 -.1657 .0335
.520 -1.1521 -.9037 -.5283 -.3350 -.1679 .0002
.663 -1.1273 -.6649 -.4763 -.3627 -.0780 .0381
.873 -1.2745 -.8208 -.6808 -.4346 -.2538 -.1181

MACH (1) = .165 ALPHA (5) = 14.990 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r/B

.000 -.3089 -.4715 -.0840 -.1581 -.1500 -.1675
.334 -.7552 -.6562 -.6645 -.3632 -.2194 -.0362
.520 -1.1771 -.9824 -.5943 -.4252 -.2300 .0246
.663 -1.3063 -.7489 -.5878 -.4779 -.1712 -.0856
.873 -1.5212 -1.3000 -1.2469 -.7988 -.4567 -.2275

MACH (1) = .165 ALPHA (6) = 19.975 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/r/B

.000 -.3631 -.5705 -.0760 -.2041 -.1720 -.1697
.334 -.8320 -.6524 -.7361 -.4469 -.3185 -.1366
.520 -1.0332 -1.1933 -.9015 -.7431 -.5235 -.1201
.663 -1.7679 -1.2933 -1.1053 -.9396 -.5907 -.5177
.873 -1.3565 -1.2590 -1.2056 -1.0459 -.8302 -.5825

MACH (1) = .165 ALPHA (1) = -4.025 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z1/8						
.000	-.0354	-.1561	.0612	-.0394	-.0513	-.1262
.334	-.0997	-.1480	-.3044	-.1517	-.0869	.0303
.520	-.2243	-.4199	-.2207	-.1326	-.0744	-.0007
.663	-.3625	-.3163	-.2386	-.1618	-.0254	.0974
.873	-.3108	-.4183	-.7161	-.3091	-.0770	.0153

MACH (1) = .165 ALPHA (2) = -.010 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z1/8						
.000	-.0790	-.2173	.0247	-.0379	-.0678	-.1295
.334	-.2336	-.2739	-.3504	-.1683	-.0907	-.0107
.520	-.4765	-.5744	-.2815	-.1613	-.0855	-.0202
.663	-.5642	-.3756	-.2603	-.1874	-.0589	.0219
.873	-.5506	-.5340	-.7708	-.3256	-.0992	.0070

MACH (1) = .165 ALPHA (3) = 4.960 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C	.1500	.3000	.4500	.6000	.7500	.9000
Z1/8						
.000	-.1699	-.3015	-.0215	-.1039	-.1098	-.1386
.334	-.4566	-.3966	-.4163	-.2290	-.1240	-.0339
.520	-.8302	-.6439	-.3697	-.2225	-.1187	-.0351
.663	-.7864	-.4973	-.3283	-.2337	-.1199	-.0737
.873	-.8706	-.6837	-.7611	-.3349	-.1525	-.0366

DA - OCT 74 TABULATED SOURCE DATA - CA57B

(R0VU70)

CA57-B B16C5F1 J42 WOTE18 WING UPPER SURFACE

MACH (1) = .165 ALPHA (4) = 9.950 PN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 9000

Z/H

.000 -.2385 -.3876 -.5423 -.7149 -.11462 -.1522
.334 -.6103 -.5139 -.2859 -.2598 -.1733 .1107
.520 -1.0366 -.7744 -.4602 -.2306 -.1708 -.15674
.663 -1.0009 -.6050 -.4075 -.3005 -.1588 -.1105
.873 -1.1803 -.7701 -.6294 -.3913 -.2489 -.1130

MACH (1) = .165 ALPHA (5) = 15.30 PN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .1500 .3000 .4500 .6000 .7500 .9000

Z/H

.000 -.2999 -.4480 -.6449 -.1156 -.1573 -.1818
.334 -.7153 -.5937 -.3783 -.3498 -.2185 -.17417
.520 -1.1116 -.8355 -.5538 -.4095 -.2541 -.10719
.663 -1.1772 -.6396 -.4990 -.4106 -.2846 -.2329
.873 -1.5243 -1.3426 -1.1701 -.8442 -.5299 -.2918

MACH (1) = .165 ALPHA (6) = 19.955 PN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/ .1500 .3000 .4500 .6000 .7500 .9000

Z/H

.000 -.3450 -.5403 -.0750 -.1986 -.1817 -.1973
.334 -.7425 -.5969 -.6742 -.4632 -.3522 -.1814
.520 -.9527 -1.0365 -.7581 -.6315 -.3974 -.1902
.663 -1.5509 -1.0827 -.8686 -.7567 -.5414 -.4273
.873 -1.1189 -1.0404 -.9651 -.8034 -.6311 -.4916

QAS7-B B16CSF1 J40 W07E10 WING TOTAL SURFACE

(NOV03) (12 NOV 73)

REFERENCE DATA

WREF = 4.4120 83.FT. XMRP = 43.5940 IN.
LREF = 19.2300 IN. YMRP = .0000 IN.
ZREF = 31.8000 IN. ZMRP = -.4050 IN.
SCALE = .0405

MACH (1) = .165 ALPHA (1) = 10.000 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/Y	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	.2060	.1505	.0940	.0566	-.1729
-.750	.3052	.2176	.1633	-.2121	-.2967
-.600	.3917	.3859	.1368	-.0344	-.2215
-.450	.2505	.3199	.2491	.0513	-.1042
-.300	.4637	.1421	.2504	.2638	.0444
-.150	.4235	.4581	.0744	.4404	.3365
.150	-.2234	-.7553	-.7158	-1.1785	-1.0151
.300	-.3770	-.5755	-.5957	-.7859	-.8603
.450	-.2303	-.5014	-.4236	-.4861	-.7052
.600	-.0957	-.2877	-.3153	-.3229	-.5207
.750	-.1456	-.1579	-.2160	-.0515	-.3484
.900	-.1989	.0020	.0319	.0836	-.2996

MACH (1) = .165 ALPHA (2) = 15.025 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/Y	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	.3272	.2465	.1239	.0490	-.2194
-.750	.4400	.3284	.2462	-.0223	-.2720
-.600	.4732	.4509	.2580	.0811	-.1868
-.450	.3575	.3762	.2958	.1307	-.0132
-.300	.5128	.2332	.2002	.2033	.1456
-.150	.4696	.5130	.1267	.3885	.3914
.150	-.2643	-1.2527	-.7328	-1.3002	-2.6551
.300	-.4226	-.6571	-.6571	-.8333	-1.5804
.450	-.2533	-.6428	-.5013	-.5102	-1.1352
.600	-.1083	-.3408	-.4051	-.3610	-.8670
.750	-.1646	-.2026	-.3007	-.1491	-.7456
.900	-.2015	-.0405	-.0321	-.0526	-.5976

(R05W03)

CA57-B R16C5F1 J4 W07E10 WING TOTAL SURFACE

MACH 1) = .165 ALPHA (3) = 20.045 RAYL = 1.200 MACH 2 = .165

DEFLECTION VARIABLE CP

SECTION (1) WING

Z1/B --500 .3340 .3200 .6630 .877

X/C

-300	.4411	.2977	.0622	-.0819	-.2202
-250	.3332	.3964	.2452	-.0603	-.2070
-200	.3460	.3203	.2371	.1795	-.1236
-150	.4373	.4801	.2776	.2241	.1383
-100	.3777	.3585	.3474	.3923	.2614
-50	.2465	.5826	.1736	.5288	.4887
0	-.1787	-1.5528	-.7500	-1.4677	-1.0984
50	-.4816	-.8539	-.8119	-1.3004	-1.0940
100	-.3443	-.6680	-.9063	-1.1582	-1.0510
150	-.2109	-.5753	-.8187	-1.0398	-.9487
200	-.2954	-.3610	-.6360	-.6286	-.8914
250	-.2633	-.1389	-.2028	-.5150	-.8024

MACH (1) =	.165	ALPHA (1) =	10.000	RN/L =	1.200	MACH =	.165
SECTION (1) WING							
DEPENDENT VARIABLE CP							
Z1/B	.0000	.3340	.5200	.6630	.8730		
X/C							
-.900	.3428	.2140	.0724	.0712	-.2090		
-.750	.4257	.3303	.2046	-.0687	-.3118		
-.600	.4157	.4858	.2709	.1299	-.3281		
-.450	.2670	.4087	.3280	.0756	-.1793		
-.300	.4662	.2089	.2930	.2033	-.0390		
-.150	.4255	.4735	.1058	.3358	.3248		
.150	-.2229	-.7488	-.7143	-1.1292	-.9420		
.300	-.3653	-.5516	-.5588	-.7610	-.8142		
.450	-.2157	-.4962	-.4330	-.4646	-.6644		
.600	-.1002	-.2780	-.3140	-.3033	-.4688		
.750	-.1365	-.1400	-.2037	-.0586	-.2890		
.900	-.1994	.0048	.0357	.0740	-.2201		

MACH (1) =	.165	ALPHA (2) =	15.050	RN/L =	1.200	MACH =	.165
SECTION (1) WING							
DEPENDENT VARIABLE CP							
Z1/B	.0000	.3340	.5200	.6630	.8730		
X/C							
-.900	.5775	.3562	.1828	.1254	-.1971		
-.750	.5912	.4845	.3352	.0504	-.2906		
-.600	.4867	.5640	.2572	.1916	-.1797		
-.450	.3545	.4590	.3228	.1832	-.0198		
-.300	.5122	.2831	.3288	.2721	.1317		
-.150	.4832	.5211	.0209	.1945	.4092		
.150	-.2605	-1.2572	-.7663	-1.1655	-2.3165		
.300	-.4115	-.6946	-.6352	-.7431	-1.5493		
.450	-.2452	-.6133	-.5397	-.5023	-1.1622		
.600	-.1049	-.3285	-.4092	-.3621	-.9076		
.750	-.1464	-.1891	-.3043	-.1514	-.7753		
.900	-.1960	-.0360	-.0328	-.0340	-.5820		

(RDVMO4)

MACH (1) = .165 ALPHA (3) = 19.960 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.900	.7461	.4204	.1461	.0113	-.2034
-.750	.6348	.3375	.3051	-.0365	-.1909
-.600	.5551	.6158	.2781	.2109	-.0467
-.450	.4411	.5396	.3447	.2249	.1244
-.300	.5792	.4001	.3531	.3812	.2497
-.150	.5513	.5878	.2481	.4762	.4731
.150	-.3099	-1.5562	-.8023	-1.5206	-1.1525
.300	-.4898	-.8566	-.8032	-1.3613	-1.0703
.450	-.3440	-.8202	-.9017	-1.1394	-1.0363
.600	-.2146	-.5522	-.7884	-.9823	-.9468
.750	-.3061	-.3478	-.6237	-.5712	-.8656
.900	-.2666	-.1362	-.2838	-.5096	-.8606



DATE 08 OCT 74 TABULATED SOURCE DATA - C457B

C457-B B16C5F1 J40 W0TE18 WING TOTAL SURFACE (RDW05) (12 NOV 73)

REFERENCE DATA

REF = 4.4120 83.4 FT. XMRP = 43.5940 IN.
 LREF = 16.2500 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.500
 H/B = .039 BDFLAP = -18.000
 ELEVON = .000

MACH (1) = .165 ALPHA (1) = 9.990 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .5551 .2784 .0769 .0983 -.1593
 -.750 .4810 .3988 .2869 -.0286 -.3348
 -.600 .4063 .3308 .3641 .1346 -.3145
 -.450 .2446 .4253 .3508 .0653 -.1430
 -.300 .4247 .2091 .2657 .1383 -.0111
 -.150 .4417 .4708 .0598 .2552 .3430
 .150 -.2087 -.7368 -.7032 -1.0915 -.8852
 .300 -.3564 -.5218 -.5921 -.7370 -.7789
 .450 -.2050 -.4979 -.4290 -.4510 -.6360
 .600 -.0855 -.2590 -.2883 -.2883 -.4452
 .750 -.1287 -.1179 -.1850 -.0407 -.2660
 .900 -.1929 .0233 .0310 .0757 -.1954

MACH (1) = .165 ALPHA (2) = 15.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .7881 .4753 .2355 .1603 -.1638
 -.750 .6377 .5783 .4474 .0146 -.2713
 -.600 .4939 .5996 .2296 .1673 -.1677
 -.450 .3484 .4579 .3265 .1686 -.0194
 -.300 .4768 .2631 .2477 .2002 .1359
 -.150 .4862 .5122 .1683 -.0663 .4041
 .150 -.2338 -1.2339 -.7551 -1.1446 -1.7313
 .300 -.4033 -.6768 -.6430 -.7203 -1.2919
 .450 -.2322 -.5834 -.5119 -.4959 -1.0844
 .600 -.0947 -.3053 -.3827 -.3541 -.8347
 .750 -.1416 -.1720 -.2776 -.1372 -.6759
 .900 -.1918 -.0172 -.0277 -.0359 -.5358

DATE 08 OCT 74 TABULATED SOURCE DATA - CA37B

(MOVW03)

CA37-B B16C5F1 J40 W0TE18 WING TOTAL SURFACE
MACH (1) = .183 ALPHA (3) = 20.00C RN/L = 1.200 MACH = .183

SECTION (1) WING DEFICIENT VARIABLE CP

21/B .0000 .3340 .5200 .6630 .8730

X/C

- .900 .6995 .5218 .2029 .0886 -.1614
- .750 .6452 .6290 .3685 -.2077 -.2470
- .600 .5570 .6483 .3120 .2015 -.0753
- .450 .4227 .5246 .3358 .2694 .0945
- .300 .3552 .3973 .2956 .4421 .2281
- .150 .3549 .5816 .2273 .4177 .4644
150 -.3107 -1.5580 -.7907 -1.4282 -1.1243
300 -.4794 -.6332 -.8007 -.9242 -1.0246
450 -.5626 -.7996 -.8486 -1.0757 -.9814
600 -.7213 -.9473 -.7721 -.9605 -.9092
750 -.8862 -.5403 -.6259 -.5630 -.8210
900 -.2755 -.1365 -.2750 -.5354 -.8193

C437-B B18C3F1 J40 W07E18 WING TOTAL SURFACE (RDVV06) (12 NOV 73)

REFERENCE DATA

SWPT = 4.4190 LB FV WARP = 43.5940 IN.
LREF = 18.2300 IN. WARP = .0000 IN.
BREF = 37.9350 IN. WARP = -.4050 IN.
SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.000
M/B = .125 BOFLAP = -18.000
ELEVON = .000

MACH (1) = .165 ALPHA (1) = -3.980 AN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6430 .8730

X/C

-.900 -.2104 -.1878 -.1367 -.0729 -.0264
-.750 -.2643 -.2871 -.2514 -.3314 -.2403
-.600 -.3566 -.3047 -.2594 -.2352 -.3371
-.450 -.6472 -.4980 -.2502 -.2331 -.2822
-.300 -.6191 -.9395 -.3827 -.2460 -.2504
-.150 -.0505 -.3923 -.6676 -.4604 -.0944
.150 -.0570 -.1641 -.3151 -.3684 .0854
.300 -.1640 -.2415 -.3678 -.4057 -.3566
.450 -.1035 -.3046 -.3272 -.3071 -.2796
.600 -.0029 -.1770 -.2067 -.2153 -.2056
.750 -.0567 -.0267 -.0967 -.0263 -.1019
.900 -.1759 .0393 -.1243 .1169 .0089

MACH (1) = .165 ALPHA (2) = .010 AN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.1440 -.1301 -.0756 -.0565 .0247
-.750 -.1775 -.2474 -.1688 -.2908 -.1759
-.600 -.1785 -.1523 -.1309 -.0992 -.2242
-.450 -.4548 -.3013 -.0732 -.0557 -.1400
-.300 -.2918 -.6042 -.1831 -.0134 -.0664
-.150 .1488 -.0981 -.3822 -.1258 .2236
.150 -.0911 -.2676 -.4567 -.6249 -.1125
.300 -.2049 -.3252 -.4433 -.5355 -.4697
.450 -.1567 -.3453 -.3611 -.3676 -.3612
.600 -.0331 -.1917 -.2171 -.2384 -.2424
.750 -.0716 -.0339 -.0494 -.1222 -.1043
.900 -.1644 .0439 -.0690 .1253 -.0103

DATE 08 OCT 74 TABULATED SOURCE DATA - CAS7B (ADV006)

MACH (1) = .165 ALPHA (3) = 4.980 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/P .0000 .3340 .5200 .6630 .8730

A/C				
-900	-.0353	-.0742	-.1518	-.0326
-750	-.0403	-.1359	-.1875	-.2123
-600	-.0028	.0049	-.0768	.0397
-450	-.2213	-.0920	.0611	.125
-300	-.0116	-.2772	-.0059	.225
-150	.2433	.1528	-.3314	.210
0	-.1480	-.5151	-.6039	.925
150	-.2536	-.5211	-.5117	-.667
300	-.1741	-.4472	-.3744	-.416
450	-.0672	.2194	.2301	-.264
600	-.0833	.2424	.1053	-.145
750	-.1672	.0424	-.0325	.18

MACH (1) = .165 ALPHA (4) = 10.015 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/P .0000 .3340 .5200 .6630 .8730

A/C				
-900	.0203	.0050	-.1408	-.0198
-750	.0831	.0030	-.2021	-.1227
-600	.1502	.1931	-.0631	.1377
-450	-.0446	.0711	.1071	.2308
-300	.1665	-.0790	.1583	.3832
-150	.3264	.2919	-.1325	.4397
0	-.2047	-.7193	-.6827	.1195
150	.3132	.5423	-.5871	-.7917
300	-.2267	-.4866	-.4303	-.4982
450	-.0828	.2693	-.2869	.3321
600	-.1009	.1133	.1674	-.0520
750	-.1767	.0081	-.0967	.3326

MACH (1) = .165 ALPHA (5) = 15.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/P .0000 .3340 .5200 .6630 .8730

A/C				
-900	.0703	.0438	-.0339	-.0736
-750	.1784	.0626	.0045	-.1112
-600	.2337	.2439	.0675	.1497
-450	.0841	.1986	-.1	.2281
-300	.3056	.0949	.1421	.4722



DATE 08 OCT 74 TABULATED SOURCE DATA - CA378

(RDVND04)

CA37-B 816C5F1 J40 W07E18 WING TOTAL SURFACE

MACH (1) = .185 ALPHA (5) = 15.000

SECTION (1) WING DEPENDENT VARIABLE CP

Z/YB .0000 .3340 .5200 .6630 .8730

Z/C
 -.190 .4161 .4000 .0531 .6488 .4371
 .190 -.2471 -1.2080 -.7437 -1.3271 -2.0467
 .300 -.3408 -.8537 -.6194 -.8668 -1.3399
 .450 -.2253 -.5773 -.4686 -.3238 -.9711
 .600 -.0824 -.3083 -.3483 -.3076 -.7619
 .750 -.1046 -.1501 -.2185 -.0963 -.6685
 .900 -.1871 -.0188 -.1117 .0034 -.4544

MACH (1) = .185 ALPHA (6) = 19.985 RW/L = 1.200 MACH = .185

SECTION (1) WING DEPENDENT VARIABLE CP

Z/YB .0000 .3340 .5200 .6630 .8730

Z/C
 -.900 .0486 .0109 -.1899 -.1338 -.1080
 -.750 .2097 .0564 -.1035 -.0846 -.1661
 -.600 .3206 .2667 .0032 .2085 .0197
 -.450 .1886 .2854 -.1125 .2816 .1584
 -.300 .3875 .2230 .0845 .4183 .2743
 -.150 .4879 .4819 .5045 .7724 .4888
 .190 -.2916 -1.4174 -.7548 -1.2831 -1.0775
 .300 -.4063 -.8403 -.7182 -1.1451 -1.0298
 .450 -.2972 -.7718 -.7639 -1.1427 -1.0061
 .600 -.1568 -.5072 -.7709 -1.0679 -.9536
 .750 -.2435 -.3081 -.5701 -.5443 -.0945
 .900 -.2727 -.1413 -.4159 -.4813 -.9025

REFERENCE DATA

REF = 4.4180 84.F"

LMREF = 19.2500 IN.

BRREF = 37.8350 IN.

SCALE = .0405

WARP = 43.5940 IN.

WARP = .0005 IN.

WARP = -.4050 IN.

PARAMETRIC DATA

BETA = .000

PTN/P = 1.300

H/B = .125

BDFLAP = -18.000

ELEVON = .000

MACH (1) = .165

ALPHA (1) = -3.980

RM/L = 1.200

MACH = .165

SECTION (1) WING	DEPENDENT VARIABLE CP
21/8 .0000 .3340 .5200 .6630 .8750	
X/C	
-.900	-.1776
-.750	-.334
-.600	-.5112
-.450	-.7019
-.300	-.8789
-.150	-.0277
.000	-.0458
.150	-.1439
.300	-.0848
.450	.0112
.600	.0517
.750	.1665
.900	-.1776
	-.2027
	-.3895
	-.3920
	-.9019
	-.8789
	-.0277
	-.0458
	-.1439
	-.0848
	.0112
	.0517
	.1665
	-.1776
	-.1103
	-.2899
	-.2939
	-.7325
	-.5326
	-.7961
	-.2710
	-.4102
	-.3034
	-.1623
	-.0992
	-.0603
	-.1022
	-.3807
	-.2700
	-.2620
	-.3159
	-.5619
	-.3142
	-.3624
	-.2660
	-.1900
	-.0152
	.1275
	-.0518

MACH (1) = .165

ALPHA (2) = .005

RM/L = 1.200

MACH = .165

SECTION (1) WING	DEPENDENT VARIABLE CP
21/8 .0000 .3340 .5200 .6630 .8750	
X/C	
-.900	-.1453
-.750	-.2154
-.600	-.2717
-.450	-.6015
-.300	-.4165
-.150	.1394
.000	-.0826
.150	-.1872
.300	-.1306
.450	-.0183
.600	-.0762
.750	-.1601
.900	-.1453
	-.3071
	-.2011
	-.3934
	-.7169
	-.1411
	-.2547
	.3245
	-.3421
	-.1755
	.0321
	.0558
	-.0767
	-.2036
	-.1641
	-.1231
	-.2591
	-.4972
	-.4414
	-.4130
	-.3570
	-.3548
	-.2086
	-.0894
	-.0268
	-.0665
	-.3140
	-.1224
	-.0825
	-.0557
	-.1937
	-.5874
	-.5178
	-.3548
	-.2270
	-.0172
	.1295
	-.0017
	-.1910
	-.2249
	-.1456
	-.0631
	.1774
	-.0836
	-.4493
	-.3463
	-.2342
	-.0978
	-.0053

(RDW007)

QAS7-B B16CSF1 J40 W0TE18 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (3) = 4.995 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.0486 -.0827 -.1524 -.1054 -.0724
-.750 -.0533 -.1485 -.1966 -.2652 -.1496
-.600 -.0469 -.0026 -.0854 -.0010 -.1367
-.450 -.2957 -.1177 -.0456 .0860 -.0266
-.300 -.0818 -.3352 -.0392 .1847 .0670
-.150 .2430 .1361 -.2399 .1650 .3502
.150 -.1387 -.4660 -.5820 -.8844 -.4426
.300 -.2378 -.4806 -.5015 -.6537 -.6171
.450 -.1655 -.4318 -.3737 -.4169 -.4855
.600 -.0565 -.2069 -.2187 -.2577 -.3265
.750 -.0929 .0172 -.1023 -.0396 -.1635
.900 -.1578 .0435 -.0266 .1046 -.0198

MACH (1) = .165 ALPHA (4) = 9.975 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0188 .0078 -.1156 -.0899 -.0193
-.750 .0821 .0008 -.1699 -.2155 -.1742
-.600 .1093 .1515 -.0200 .0952 -.0553
-.450 -.1073 .0569 .1368 .2161 .0584
-.300 .1213 -.0998 .1648 .3340 .1579
-.150 .3257 .2743 -.1119 .3506 .4414
.150 -.2022 -.7141 -.7007 -1.1361 -.8940
.300 -.2846 -.5065 -.5697 -.7842 -.8021
.450 -.2008 -.4773 -.4478 -.4779 -.6463
.600 -.0778 -.2586 -.2845 -.3317 -.4520
.750 -.1044 -.0226 -.1517 -.0515 -.2729
.900 -.1720 .0200 -.0614 .1210 -.1511

MACH (1) = .165 ALPHA (5) = 15.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0756 .0518 -.0606 -.0553 -.0218
-.750 .1775 .0758 -.0276 -.1583 -.1353
-.600 .2193 .2532 .1562 .254 .0020
-.450 .0171 .1632 .0818 .2224 .1234
-.300 .2517 .0430 .1540 .4776 .2400

(RDVMD7)

CA57-B B16C5F1 J40 W07E18 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (5) = 15.000

SECTION (1) WING

DEPENDENT VARIABLE CP

21/B .0000 .3340 .5200 .5630 .8730

X/C

-.150 .4063 .3758 -.0336 .2386 .4416
.150 -.2439 -1.1937 -.7840 -1.2466 -1.6243
.300 -.3392 -.6823 -.6354 -.7953 -1.1487
.450 -.2288 -.5890 -.5485 -.5071 -.9007
.600 -.0817 -.2946 -.3295 -.3366 -.7052
.750 -.1198 .0215 -.2364 -.1167 -.5930
.900 -.1824 -.0430 -.0713 -.0203 -.4457

MACH (1) = .165 ALPHA (5) = 19.975 PN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

21/B .0000 .3340 .5200 .5630 .8730

X/C

-.900 .1177 .0676 -.1341 -.2550 -.0389
-.750 .2387 .1349 -.0313 -.2613 -.1067
-.600 .3182 .3240 .0846 .1641 .0678
-.450 .1451 .2934 .0694 .3327 .2145
-.300 .3538 .2151 .1476 .5398 .3308
-.150 .3014 .4848 .2405 .7114 .5168
.150 -.2799 -1.4732 -.7231 -1.2829 -1.1125
.300 -.3835 -.7903 -.6652 -1.2576 -1.0354
.450 -.2833 -.7171 -.7785 -1.1095 -1.0077
.600 -.1534 -.4629 -.6863 -1.0167 -.9244
.750 -.2418 -.0399 -.6207 -.4932 -.8675
.900 -.2447 -.1288 -.3489 -.4695 -.8626

CA57-B B16C3F1 J40 W87E10 WING TOTAL SURFACE

(REVISED) (12 NOV 73)

REFERENCE DATA

BREF = 4.4120 82.FT. XMRP = 43.5940 IN.
 BREF = 40.6300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4030 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA	=	.000	PTN/P	=	1.500
M/B	=	.125	BDFLAP	=	-10.000
ELEVON	=	.000			

MACH (1) = .165 ALPHA (1) = -4.015 AN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CF

21/8	.0000	.3340	.5200	.6630	.8730
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X/C

-900	-2177	-2610	-2352	-1630	-0786
-750	-4034	-4986	-2921	-4403	-3262
-600	-6828	-5101	-3825	-3249	-1757
-450	-11210	-8751	-4783	-3683	-3469
-300	-10455	-14036	-7160	-4180	-3312
-150	-0137	-6249	-9599	-7087	-2055
0	-0604	-1354	-2623	-2804	-1361
150	-1534	-2315	-3360	-4056	-3217
300	-0842	-2756	-3092	-2886	-2694
450	-0009	-1198	-1473	-1949	-2024
600	-0620	-1862	-0918	-0375	-1043
750	-1766	-2116	-1158	-0893	-0015
900					

MACH (1) =	.165	ALPHA (2) =	-.030	RN/L	=	1.200	MACH	=	.165
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SECTION (1) WING

DEPENDENT VARIABLE CP

21/B	.0000	.3340	.5200	.6630	.8730
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2/2

-900	-1674	-1959	-2503	-1288	-0361
-750	-2829	-3659	-2030	-3800	-2162
-600	-3907	-2968	-2381	-1681	-2408
-450	-7432	-5381	-2165	-1362	-1782
-300	-5022	-7856	-3612	-1221	-1207
-150	-0916	-2157	-6465	-2998	-1132
150	-0916	-2615	-4513	-5375	-0475
300	-1901	-13065	-4125	-5414	-4432
450	-1343	-3264	-3674	-3438	-3448
600	-0283	-1509	-1742	-2319	-2367
750	-0763	-1859	-1077	-0370	-1027
900	-1745	-1924	-0525	-0960	-0124

CA57-B B16C5F1 J40 W87E18 WING TOTAL SURFACE (RDVV008)

MACH (1) = .165 ALPHA (3) = 4.990 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900	-.0516	-.1132	-.3190	-.1482	-.0972
-.750	-.0925	-.1858	-.2256	-.3037	-.1402
-.600	-.1155	-.0877	-.1282	-.0138	-.1197
-.450	-.3698	-.1874	.0671	.0676	-.0243
-.300	-.1281	-.3791	-.0736	.1573	.0645
-.150	.2471	.1101	-.2722	.1098	.3518
.150	-.1343	-.4618	-.3450	-.7904	-.3751
.300	-.2236	-.4368	-.4400	-.6030	-.5843
.450	-.1527	-.4107	-.3707	-.3708	-.4516
.600	-.0480	-.1660	-.1700	-.2404	-.2978
.750	-.0712	.1127	-.1356	-.0310	-.1448
.900	-.1586	-.1728	-.0464	.0549	.0023

MACH (1) = .165 ALPHA (4) = 9.980 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900	.0254	.0068	-.1723	-.1200	-.0337
-.750	.0636	-.0177	-.1791	-.2105	-.1328
-.600	.0678	.1045	-.0413	.1128	-.0354
-.450	-.1421	.0376	.1572	.2221	.0807
-.300	.0869	-.1295	.1503	.3255	.1738
-.150	.3393	.2751	-.1168	.3352	.4651
.150	-.1894	-.6811	-.6335	-1.0266	-.8048
.300	-.2728	-.4201	-.5160	-.7367	-.7423
.450	-.1725	-.4433	-.4604	-.4461	-.5964
.600	-.0617	-.2163	-.2318	-.3121	-.3954
.750	-.0772	-.0358	-.0875	-.0459	-.2198
.900	-.1443	-.1018	-.0379	.0828	-.1057

MACH (1) = .165 ALPHA (5) = 14.950 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900	.1141	.0751	-.0421	-.1034	-.0201
-.750	.1945	.0960	-.0255	-.1759	-.1248
-.600	.1975	.2404	.0708	.2210	.0279
-.450	.0101	.1787	.1971	.3264	.1356
-.300	.2428	.0387	.2523	.4185	.2540

DATE 08 OCT 74 TABULATED SOURCE DATA - CA378

(ADM008)

CA37-B B16C5F1 J40 W07E10 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (5) = 14.950

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .3200 .6630 .8730

X/C

-.150 .4194 .3915 .0331 .4281 .4689
 .150 -.2403 -1.1578 -.7095 -1.1904 -1.6193
 .300 -.3239 -.5901 -.5991 -.6710 -1.1714
 .450 -.2113 -.5521 -.5071 -.5208 -.9057
 .600 -.0727 -.2642 -.2702 -.2775 -.6188
 .750 -.0915 -.1120 -.1552 -.0702 -.5538
 .900 -.1732 -.0310 -.0516 .0422 -.4120

MACH (1) = .165 ALPHA (6) = 19.965 RN/L = 1.200 MACH = .145

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .3200 .6630 .8730

X/C

-.900 .1466 .0649 -.1632 -.3191 -.0617
 -.750 .2472 .1262 -.0482 -.2953 -.1242
 -.600 .3086 .3004 .0870 .1368 .0565
 -.450 .1440 .2960 .0167 .3038 .1941
 -.300 .3568 .2264 .1102 .5267 .3223
 -.150 .5009 .4787 .2163 .7010 .5051
 .150 -.2774 -1.5065 -.7294 -1.2015 -1.0935
 .300 -.4193 -.8081 -.6952 -1.2180 -1.0060
 .450 -.2893 -.7299 -.8383 -1.1600 -.9963
 .600 -.1420 -.4686 -.7004 -1.0022 -.9294
 .750 -.2529 -.3154 -.5533 -.5743 -.8599
 .900 -.2503 -.0810 -.3157 -.5172 -.8742

CA57-B B18C5F1 J40 W07E18 WING TOTAL SURFACE (RDVW09) (12 NOV 73)

REFERENCE DATA

MEF = 4.4120 84. FT. XMRP = 43.5940 IN.
LREF = 19.2300 IN. PMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.500
M/B = .125 BOFLAP = .000
ELEVON = .000

MACH (1) = .165 ALPHA (1) = -4.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.1568 -.2414 -.2257 -.1614 -.0800
-.750 -.3649 -.4746 -.3320 -.4193 -.3166
-.600 -.6458 -.5398 -.3769 -.3232 -.3759
-.450 -.11052 -.8334 -.4485 -.3504 -.3359
-.300 -.10087 -.1.3163 -.6947 -.4022 -.3300
-.150 -.0078 -.5971 -.9527 -.7166 -.2056
150 -.0588 -.1479 -.2837 -.3178 .1076
300 -.1682 -.2377 -.3436 -.3789 -.3295
450 -.1121 -.2917 -.3133 -.2938 -.2651
600 .0061 -.1605 -.1950 -.2028 -.2035
750 -.0551 -.0364 -.0902 -.0206 -.0976
900 -.1863 .0639 .0952 .1220 .0100

MACH (1) = .155 ALPHA (2) = -.015 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.0972 -.1488 -.1788 -.0946 -.0386
-.750 -.2165 -.3462 -.2787 -.3536 -.1929
-.600 -.3576 -.2869 -.1953 -.1449 -.2287
-.450 -.6987 -.4924 -.1858 -.1107 -.1621
-.300 -.4781 -.7366 -.3545 -.0996 -.0992
-.150 .1255 -.1750 -.5746 -.2736 .1266
150 -.0895 -.2331 -.4397 -.5637 -.0624
300 -.1816 -.3251 -.4370 -.5186 -.4383
450 -.1132 -.3254 -.3466 -.3492 -.3374
600 -.0200 -.1664 -.1937 -.2147 -.2246
750 -.0693 -.0312 -.0755 -.0106 -.0820
900 -.1591 .0817 .1173 .1451 .0106

DATE 08 OCT 74 TABULATED SOURCE DATA - QAS7B (ADVMOB)

QAS7-B B16CSF1 J40 W3TE18 WING TOTAL SURFACE
MACH (1) = .165 ALPHA (3) = 4.965 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	-.0535	-.0780	-.2617	-.1311	-.0950
-.750	-.0421	-.1707	-.2303	-.2965	-.1434
-.600	-.1026	-.0849	-.1276	-.0227	-.1433
-.450	-.3706	-.1823	.0562	.0680	-.0276
-.300	-.1390	-.3395	-.0650	.1543	.0600
-.150	.2442	.1073	-.2804	.1025	.3331
.150	-.1400	-.4867	-.5876	-.8969	-.4302
.300	-.2522	-.5119	-.4816	-.6429	-.6011
.450	-.1831	-.4132	-.3657	-.4028	-.4621
.600	-.0501	-.2006	-.2301	-.2663	-.3296
.750	-.0947	-.0276	-.0919	-.0313	-.1380
.900	-.1679	.0480	-.0044	.1162	-.0489

MACH (1) = .165 ALPHA (4) = 9.985 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	.1275	.0391	-.1605	-.1194	-.0431
-.750	.0985	.0127	-.1590	-.2222	-.1387
-.600	.0823	.1270	-.0209	.1167	-.0391
-.450	-.1393	.0358	.1452	.2112	.0653
-.300	.0793	-.0919	.1537	.3189	.1709
-.150	.3451	.2813	-.0996	.3376	.4564
.150	-.2008	-.6974	-.6570	-.1132	-.8479
.300	-.2943	-.5247	-.5497	-.7610	-.7747
.450	-.2055	-.4416	-.4308	-.4794	-.6477
.600	-.0702	-.2346	-.2644	-.3059	-.4443
.750	-.0901	-.0723	-.1259	-.0370	-.2542
.900	-.1766	.0370	.0493	.1413	-.1664

MACH (1) = .165 ALPHA (5) = 14.970 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	.2223	.1231	-.0416	.1	-.0087
-.750	.2193	.1290	-.0057	.15	-.1172
-.600	.2196	.2540	.0731		.123
-.450	.0197	.1741	.1917		.384
-.300	.77	.696	.25		.2609

DATE 08 OCT 74

TABULATED SOURCE DATA - CA378

(RDW009)

MACH (1) = .165 ALPHA (5) = 14.970

SECTION (1) WING DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.150 .4391 .3076 .0170 .4352 .456A
 .150 -.2368 -1.1843 -.7497 -1.2786 -1.6718
 .300 -.3452 -.7085 -.5054 -.8291 -1.1490
 .450 -.2166 -.5297 -.3159 -.4929 -.9096
 .600 -.0720 -.2779 -.3195 -.2926 -.6460
 .750 -.1168 -.1686 -.1946 -.0582 -.5330
 .900 -.1948 .0116 .0374 .0659 -.3787

MACH (1) = .165 ALPHA (6) = 19.965 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.900 .2735 .1288 -.1746 -.3655 -.0374
 -.750 .2917 .1957 .0068 -.2717 -.1234
 -.600 .3135 .3211 .0799 .1936 .0617
 -.450 .1199 .2906 .0332 .3775 .2082
 -.300 .3374 .2140 .1108 .5302 .3263
 -.150 .5150 .4842 .1373 .6365 .512
 .000 -.2878 -.5510 -.7665 -1.4283 -1.1402
 .300 -.4238 -.8790 -.6500 -1.3186 -1.0828
 .450 -.2945 -.7059 -.7780 -1.1001 -1.0258
 .600 -.1569 -.4902 -.7124 -1.0035 -.9437
 .750 -.2459 -.2959 -.5233 -.4875 -.8806
 .900 -.2838 -.1270 -.3140 -.4442 -.8571



DATE 04 OCT 74 TABULATED SOURCE DATA - 0A57B

0A57-B B10C5F1 J40 WATE12 WING TOTAL SURFACE (RDWID) (12 NOV 73)

REFERENCE DATA

MACP = 4.4120 94.FT. MACP = 43.5940 IN.
 LREF = 19.2300 IN. PWRP = .0000 IN.
 MACP = 37.9350 IN. PWRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

A = .000 PTN/P = 1.300
 B = .125 BDFLAP = .000
 EL CON = .000

MACH (1) = .165 ALPHA (1) = -4.015 AN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C
 21/8 .0000 .3340 .5200 .6630 .8730

-1.900 -.1353 -.2037 -.1770 -.1504 -.0937
 -.750 -.3010 -.3932 -.2848 -.3618 -.2698
 -.600 -.3244 -.4482 -.3114 -.2746 -.3293
 -.450 -.8121 -.6797 -.5436 -.3008 -.3093
 -.300 -.8720 -.5177 -.5675 -.3460 -.2846
 -.150 .0242 -.4908 -.7844 -.6028 -.1336
 .000 -.0356 -.1464 -.2881 -.3324 .1325
 .300 -.1530 -.2514 -.3502 -.5899 -.3340
 .450 -.0928 -.3062 -.3050 -.2965 -.2757
 .600 .0035 -.1462 -.1721 -.2068 -.2028
 .750 -.0517 .0755 -.0616 -.0262 -.0982
 .900 -.1816 -.0534 .0429 .1104 .0051

MACH (1) = .165 ALPHA (2) = -.015 AN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C
 21/8 .0000 .3340 .5200 .6630 .8730

-1.900 -.0754 -.1461 -.1212 -.0906 -.1173
 -.750 -.1961 -.2964 -.1954 -.3049 -.1740
 -.600 -.2837 -.2304 -.1590 -.1112 -.2003
 -.450 -.5935 -.4084 -.1266 -.0786 -.1441
 -.300 -.4240 -.6134 -.2663 -.0836 -.0841
 -.150 .1408 -.1224 -.4510 -.2126 .1907
 .000 -.0948 -.2603 -.4370 -.5722 -.0634
 .300 -.1971 -.3191 -.4348 -.5249 -.4560
 .450 -.1338 -.3427 -.3478 -.3514 -.3455
 .600 -.0766 -.1626 -.1829 -.2181 -.2268
 .750 -.0717 .0577 -.0647 -.0271 -.0949
 .900 -.1625 -.0510 .0447 .1216 .0045

(RDW410)

QAS7-B 816CSF1 J40 W07E18 WING TOTAL SURFACE
MACH (1) = .165 ALPHA (3) = 4.970 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8710

X/C

-.900 .0347 -.0493 -.2003 -.1366 -.1179
-.750 -.0352 -.1336 -.1900 -.2781 -.1461
-.600 -.0478 -.1072 -.1022 -.0017 -.1169
-.450 -.2933 -.1223 .1022 .0889 -.0169
-.300 -.0911 -.2374 -.0162 .1881 .0683
-.150 .2541 .1416 .1777 .1698 .3586
.150 -.1471 -.5173 -.5735 -.8764 .4365
.300 .2577 .5223 .5073 .6499 .6170
.450 .1833 .4071 .3605 .4091 .4781
.600 .0583 .1992 .2133 .2604 .3343
.750 .0958 .0708 .0996 .0452 .1637
.900 .1720 .0638 .0196 .1041 .0256

MACH (1) = .165 ALPHA (4) = 9.980 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .1479 .0275 -.1507 -.1491 -.0592
-.750 .1055 .0141 -.1771 -.2279 -.1541
-.600 .1174 .1480 .0212 .0995 -.0412
-.450 .0930 .0768 .1647 .2146 .0573
-.300 .1051 .0179 .1680 .3392 .1643
-.150 .3475 .2897 .0341 .3593 .4499
.150 .2050 .7191 .7035 .1143 .9134
.300 .3203 .5282 .5875 .7855 .8165
.450 .2146 .6432 .4283 .4992 .6986
.600 .0782 .2567 .2635 .3240 .4821
.750 .1119 .1190 .1552 .0602 .2813
.900 .1899 .0192 .0111 .1145 .2045

MACH (1) = .165 ALPHA (5) = 14.970 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .2291 .0866 -.0396 -.0994 -.0318
-.750 .2168 .1130 .0068 .1711 .1273
-.600 .2311 .2498 .0848 .1864 .0203
-.450 .0387 .1750 .1876 .3358 .1429
-.300 .2440 .0989 .1393 .4825 .2589

DATE 08 OCT 74 TABULATED SOURCE DATA - C4578

(RDVW10)

C457-B B16C3F1 J40 W0TE18 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (5) = 14.970

SECTION (1) WING DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.130 .4339 .3929 -.0245 .3071 .4616
 .130 -.2316 -1.2208 -.7584 -1.2344 -1.8722
 .300 -.3439 -.7073 -.6438 -.8092 -1.2276
 .430 -.2281 -1.0082 -.5621 -.5032 -.8981
 .600 -.0900 -.3209 -.3658 -.3623 -.7393
 .730 -.1328 -.1789 -.2460 -.1386 -.6344
 .900 -.2124 -.0277 -.0054 -.0335 -.5128

MACH (1) = .165 ALPHA (6) = 19.950 AN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.900 .3093 .1013 -.1708 -.3728 -.0576
 -.750 .2964 .1687 -.0331 -.3231 -.1154
 -.600 .3291 .3255 .0696 .1436 .0768
 -.450 .1634 .3168 .0794 .2980 .2116
 -.300 .3743 .2757 .1319 .5200 .3315
 -.150 .5181 .4936 .2131 .7038 .5170
 .150 -.2924 -1.5429 -.7432 -1.3644 -1.1223
 .300 -.4352 -.9181 -.7143 -1.3442 -1.0571
 .450 -.2956 -.7530 -.8133 -1.1201 -1.0011
 .600 -.1617 -.4976 -.7106 -1.0109 -.9446
 .750 -.2348 -.3335 -.5453 -.5425 -.8763
 .900 -.2801 -.2304 -.2242 -.4783 -.8653

REFERENCE DATA

WREF = 4.4120 83.FT. WARP = 43.5940 IN.
 LWREF = 19.2300 IN. RWARP = .0000 IN.
 BWREF = 37.9350 IN. ZWARP = -.4030 IN.
 SCALE = .0405

MACH (1) = .165 ALPHA (1) = -4.010 RN = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

21/B .0000 .3340 .3200 .6630 .3750

X/C

-.900 -.1704 -.1690 -.1431 -.1111 -.0893
 -.750 -.2462 -.2821 -.2300 -.3180 -.2269
 -.600 -.3249 -.2937 -.2303 -.2022 -.2751
 -.450 -.6270 -.4774 -.2028 -.2050 -.2564
 -.300 -.6242 -.6303 -.3603 -.2122 -.2247
 -.150 .0670 -.3158 -.5660 -.3960 -.0529
 .000 .0537 -.1507 -.2837 -.3403 .1355
 .150 -.1608 -.2405 -.3127 -.3501 -.3442
 .300 -.0910 -.2925 -.3183 -.3000 -.2768
 .450 .0044 -.1565 -.1803 -.1997 -.1988
 .600 .0044 -.1565 -.1803 -.1997 -.1988
 .750 .0500 -.0316 -.0913 -.0190 -.0900
 .900 -.1701 .0148 .0788 .1178 .0144

MACH (1) = .165 ALPHA (2) = -.025 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

21/B .0000 .3340 .3200 .6630 .3750

X/C

-.900 -.0929 -.1175 -.0974 -.0773 -.1591
 -.750 -.1555 -.2508 -.1545 -.2700 -.1455
 -.600 -.1798 -.1661 -.1294 -.0770 -.1770
 -.450 -.4254 -.2977 -.0578 -.0338 -.1190
 -.300 -.2859 -.4607 -.1493 .0061 -.0477
 -.150 .1580 -.0668 -.3183 -.0916 .2559
 .000 .1013 .2715 .4428 .5958 .0971
 .150 .2112 .3251 .4001 .5283 .4560
 .300 .1320 .3466 .3557 .3555 .3553
 .450 -.0348 .1867 .2165 .2283 .2364
 .600 .0739 .6523 .0862 .0225 .0911
 .750 -.1558 .0173 .0514 .1213 -.0064



DATE 08 OCT 74 TABULATED SOURCE DATA - CA370

(RDVW11)

MACH (1) = .165 ALPHA (3) = 4.985 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	.0100	-.0551	-.1998	-.0965	-.1217
-.750	-.0210	-.1015	-.1650	-.2161	-.1435
-.600	.0203	-.0177	-.0757	-.0549	-.1049
-.450	-.2076	-.0414	.1406	.1396	.0045
-.300	-.0170	-.1116	.0387	.2479	.0919
-.150	.2713	.1433	.1113	.2294	.3964
.150	-.1394	-.4884	-.5711	-.6809	-.4505
.300	-.2547	-.5121	-.4675	-.6457	-.6187
.450	-.1795	-.4564	-.3079	-.4147	-.4830
.600	-.0530	-.1926	-.2176	-.2563	-.3362
.750	-.0492	-.0669	-.1049	-.0345	-.1566
.900	-.1658	-.0384	-.0355	.1101	-.0361

MACH (1) = .165 ALPHA (4) = 9.975 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	.1131	.0214	-.1709	-.0590	-.0610
-.750	.1051	.0163	-.1872	-.1339	-.1551
-.600	.1594	.1606	-.0401	.1464	-.0344
-.450	-.0306	.0891	.1507	.2418	.0708
-.300	.1620	.0401	.1881	.4006	.1810
-.150	.3504	.3125	.0220	.4568	.4766
.150	-.2088	-.7076	-.6559	-.1194	-.9610
.300	-.3246	-.5579	-.5833	-.6071	-.8435
.450	-.2123	-.4752	-.4549	-.5155	-.7119
.600	-.0417	-.2473	-.2594	-.3360	-.4984
.750	-.1115	-.1244	-.1461	-.0664	-.2972
.900	-.1873	-.1600	.0104	.1256	-.2125

MACH (1) = .165 ALPHA (5) = 14.980 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	.1899	.0416	-.0807	-.0958	-.0694
-.750	.2037	.0248	-.0237	-.1181	-.1127
-.600	.2608	.2436	.0434	.1530	.0192
-.450	.0944	.1926	.0315	.2414	.1371
-.300	.2940	.1708	.1983	.4846	.2526

(RDVW11)

CAST-B B16C3F1 J40 W07E10 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (5) = 14.980

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.150	.4302	.4037	.1106	.6494	.4634
.150	-.2610	-1.2203	-.7477	-1.3596	-2.3247
.300	-.3376	-.7462	-.6324	-.9682	-2.1486
.450	-.2333	-.8031	-.5432	-.5731	-1.5939
.600	-.0980	-.3116	-.3307	-.3661	-1.0665
.750	-.1288	-.1692	-.2140	-.1278	-.7297
.900	-.2124	-.0930	-.0256	-.0048	-.5570

MACH (1) = .165 ALPHA (6) = 19.975 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	.2429	.0447	-.1940	-.1549	-.1325
-.750	.2610	.1156	-.1253	-.0965	-.1423
-.600	.3415	.2875	-.0098	.2051	.0437
-.450	.1950	.3067	-.0226	.2691	.1703
-.300	.4044	.3105	.1891	.4103	.2810
-.150	.5143	.4966	.4084	.7818	.4945
.150	-.2921	-1.5318	-.7426	-1.2985	-1.0581
.300	-.4202	-.9148	-.7164	-1.1323	-1.0363
.450	-.2854	-.7757	-.8985	-1.1406	-1.0265
.600	-.1651	-.5068	-.7565	-1.0590	-.9619
.750	-.2480	-.3524	-.5756	-.5914	-.9050
.900	-.2862	-.1990	-.2661	-.4748	-.9032

MACH (1) = .165	ALPHA (1) = -4.005	RN/L = 1.200	MACH = .165
SECTION (1) WING			
DEPENDENT VARIABLE CP			
Z/B	.0000	.3340	.5200 .6630 .8730
X/C			
- .900	-.0628	-.1364	-.1128 -.0811 -.1622
- .750	-.1997	-.3063	-.2748 -.3418 -.3039
- .600	-.3450	-.2770	-.2228 -.2235 -.3151
- .450	-.6635	-.5733	-.2570 -.2005 -.2754
- .300	-.5964	-.8594	-.4437 -.2198 -.2276
- .150	-.0343	-.3455	-.6805 -.4619 -.1490
.150	-.0466	-.1253	-.2915 -.2975 .1285
.300	-.1715	-.2159	-.3166 -.3347 -.3632
.450	-.0851	-.2570	-.2834 -.2558 -.3265
.600	-.0118	-.1366	-.1556 -.1595 -.2014
.750	-.0441	.0358	-.0477 .0843 .0014
.900	-.1478	.0993	.1495 .1635 .0755

MACH (1) = .165	ALPHA (2) = -.005	RN/L = 1.200	MACH = .165
SECTION (1) WING			
DEPENDENT VARIABLE CP			
Z/B	.0000	.3340	.5200 .6630 .8730
X/C			
- .900	-.0364	-.1038	-.0954 -.0655 -.1197
- .750	-.1300	-.2458	-.2147 -.2993 -.2629
- .600	-.2527	-.1654	-.1381 -.1166 -.2255
- .450	-.5472	-.4415	-.1269 -.0666 -.1631
- .300	-.4104	-.6681	-.2817 -.0470 -.0748
- .150	-.1092	-.1526	-.4591 -.1824 .1200
.150	-.0855	-.2389	-.4431 -.5466 -.0459
.300	-.2066	-.2966	-.4126 -.4777 -.4830
.450	-.1253	-.3093	-.3267 -.3203 -.3876
.600	-.0249	-.1615	-.1804 -.1859 -.2247
.750	-.0599	.0272	-.0466 .0584 -.0283
.900	-.1424	.0912	.1453 .1555 .0612

DATE 08 OCT 74 TABULATED SOURCE DATA - CM57B

(RDW12)

CM57-B 816CSF1 J40 WOTE18 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (3) = 4.980 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0205 -.0668 -.1994 -.0801 -.1287
 -.750 -.0484 -.1648 -.2371 -.2358 -.2099
 -.600 -.1322 -.0339 -.1096 -.0102 -.1370
 -.450 -.3620 -.2413 .0187 .0780 -.0266
 -.300 -.2206 -.3929 -.0727 .1519 .0831
 -.150 .2032 .0322 -.2423 .1012 .3148
 .150 -.1377 -.3945 -.5651 -.8398 -.3763
 .300 -.2599 -.4170 -.4589 -.6051 -.6.77
 .450 -.1548 -.3687 -.3407 -.3696 -.4741
 .600 -.0537 -.2120 -.1958 -.2175 -.2736
 .750 -.0932 -.0364 -.0592 .0273 -.0965
 .900 -.1347 .0667 .0463 .1266 .0378

MACH (1) = .165 ALPHA (4) = 9.975 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0544 -.0368 -.2273 -.0896 -.1731
 -.750 .0084 -.1000 -.3015 -.1844 -.1826
 -.600 -.0231 .0379 -.1261 .0877 -.0631
 -.450 -.2687 -.1080 .0602 .1841 .0568
 -.300 -.0686 -.2153 .1102 .2820 .1717
 -.150 .2871 .1915 .1342 .3030 .4263
 .150 -.2009 -.7291 -.6363 -1.1109 -.8198
 .300 .3347 .5481 .5535 .7544 .7942
 .450 -.2046 -.4679 -.4362 -.4710 -.6080
 .600 -.0793 .2504 .2541 -.2993 -.3976
 .750 -.1200 -.0747 -.1102 -.0122 -.2134
 .900 -.1739 .0258 .0359 .0989 -.1195

MACH (1) = .165 ALPHA (5) = 15.010 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0959 .0036 -.2084 -.1107 -.2177
 -.750 .0776 -.0288 -.2628 -.1262 -.1632
 -.600 .0744 .1197 -.0838 .1852 .0189
 -.450 -.1470 .0173 .0907 .3213 .1432
 -.300 .0415 -.0465 .2201 .4133 .2693

DATE 06 OCT 74 TABULATED SOURCE DATA - QAS7B

(RDYV12)

QAS7-B B16C5F1 J40 W87E16 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (5) = 15.010

SECTION (1) WING DEPENDENT VARIABLE CP

Z/YB .0000 .3340 .5200 .6630 .8730

X/C

-.130 .3782 .2971 -.0404 .4332 .4781
 .150 -.2538 -1.2066 -.7802 -1.2613 -1.6247
 .300 -.3867 -.7413 -.6143 -.8365 -1.0725
 .450 -.2280 -.5730 -.4940 -.5162 -.8095
 .600 -.0882 -.3102 -.3030 -.3058 -.5710
 .750 -.1133 -.1697 -.1679 .0687 -.4245
 .900 -.1877 .0192 .0212 .1238 -.3473

MACH (1) = .165 ALPHA (6) = 19.990 RV/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/YB .0000 .3340 .5200 .6630 .8730

X/C

-.900 .1169 -.0132 -.2493 -.2897 -.3276
 -.750 .1287 -.0006 -.1046 -.1814 -.1597
 -.600 .1712 .1772 -.0006 .2269 .0581
 -.450 -.0405 .1453 -.1611 .3963 .2023
 -.300 .2111 .1042 .0634 .5461 .5340
 -.150 .4701 .4041 -.0579 .5601 .5242
 .150 -.2783 -1.3198 -.7633 -1.2867 -1.2358
 .300 -.4413 -.8739 -.8421 -1.2222 -1.0615
 .450 -.2678 -.7114 -.7107 -1.0480 -1.0112
 .600 -.1258 -.4617 -.9637 -.9273 -.9877
 .750 -.2026 -.2956 -.4566 -.3773 -.8625
 .900 -.2524 -.0779 -.1630 -.2752 -.6570

REFERENCE DATA

DATE = 4.4120 83.FT. XMRP = 43.5940 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 DATE = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.000
H/B = .286 BDFLAP = .000
ELEVON = .000

$$\begin{array}{rclcl} \text{MACM} (1) & = & .165 & \text{ALPHA} (1) & = & -4.005 & \text{RN/L} & = & 1.200 & \text{MACM} & = & .165 \end{array}$$

SECTION (1) WING

21/8	.0000	.3340	.5200	.6630	.8730
------	-------	-------	-------	-------	-------

31K

-900	-1137	-1161	-0907	-0191	-1657
-750	-1634	-2034	-1736	-2695	-2924
-600	-2049	-1869	-1623	-1478	-2813
-450	-4561	-4105	-1481	-1390	-2511
-300	-4485	-6507	-2453	-1393	-1795
-150	-0630	-2415	-4365	-3235	-0653
0	-0395	-1291	-3023	-3205	-1307
150	-1331	-2194	-3256	-3629	-3707
300	-0752	-2722	-2963	-2728	-3792
450	0107	-1434	-1691	-1740	-2142
600	0360	0331	0659	0728	-0008
750	0360	0725	1001	1306	0570
900	-1572	0331	1001	1306	0570

WACH (1) =	.165	ALPHA (2) =	-.020	SNUL =	1.200	WACH =	.165
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CD 3781191MA UNCORRECTED
5/4/74,) NO. 1238

21/8	.5000	.5340	.5200	.5630	.6730
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20

-900	-0.739	-0.087	-0.064	-0.0387	-0.1526
-750	-1.103	-1.004	-1.326	-2.622	-2.637
-600	-1.295	-1.088	-0.918	-0.750	-2.220
-450	-3.664	-3.064	-0.452	-0.0295	-1.500
-300	-3.034	-4.927	-1.449	0.0086	-0.456
-150	-1.292	-0.819	-2.646	-0.846	-1.046
150	-0.846	-2.438	-4.557	-5.717	-0.802
300	-1.948	-3.088	-4.245	-5.062	-4.059
450	-1.268	-3.236	-3.478	-3.400	-4.527
600	-0.0195	-1.689	-1.941	-2.036	-2.471
750	-0.643	-0.0053	-0.716	0.427	-0.0314
900	-1.902	0.0654	0.930	1.260	-0.399

CAST-B B16C5F1 J40 W07E18 WING TOTAL SURFACE

MACH (1) =	.165	ALPHA (3) =	4.995	RN/L	=	1.200	MACH	=	.165
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SECTION (1) WING

[illegible][illegible]

MACH (1) =	.165	ALPHA (4) =	9.985	RN/L	=	1.200	MACH	=	.165
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SECTION (1) WING

21/B	.0000	.3340	.5200	.6630	.8730
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[illegible]

MACH (1) =	.165	ALPHA (5) =	14.970	RN/L	=	1.200	MACH	=	.165
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SECTION (1) WING

21/8	.0000	.3340	.5200	.6630	.8730
------	-------	-------	-------	-------	-------

L/C	0.000	0.050	0.154	0.287	0.444	0.627
- .900						
- .750	0.065	0.276	0.591	0.93	1.321	
- 600	0.179	0.372	0.709	1.0	1.382	
- 450	0.309	0.522	0.847	1.186		
300	0.471	0.691	0.976	1.480		

DATE 08 OCT 74 TABULATED SOURCE DATA - CA37B

(RDYH13)

CA37-B B18C5F1 J40 W8TE18 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (5) = 14.970

SECTION (1) WING DEPENDENT VARIABLE CP

Zr/B .0000 .3340 .5200 .6630 .8730

X/C

-.150 .3711 .3151 .0318 .5787 .4566
 .150 -.2546 -1.2064 -.7784 -1.3105 -1.6397
 .300 -.3685 -.7507 -.5989 -.9050 -1.1666
 .450 -.2278 -.6055 -.5069 -.5433 -.8871
 .600 -.0860 -.3159 -.3186 -.3343 -.6770
 .750 -.1216 -.1731 -.1976 .0182 -.5418
 .900 -.2052 -.0021 -.0033 .0723 -.4280

MACH (1) = .165 ALPHA (6) = 20.010 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Zr/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0734 -.0346 -.1587 -.1830 -.3693
 -.750 .1119 -.0176 -.0504 -.1270 -.1827
 -.600 .2112 .1628 .0773 .1655 .0185
 -.450 .0259 .1489 .1013 .2643 .1615
 -.300 .2731 .1485 .0807 .4802 .2927
 -.150 .4639 .4141 .1081 .7392 .4915
 .150 -.2814 -1.4765 -.7656 -1.1829 -1.0762
 .300 -.4189 -.8718 -.6386 -1.1819 -.9944
 .450 -.2726 -.7326 -.7344 -1.1193 -.9978
 .600 -.1324 -.4999 -.6594 -1.0211 -.9915
 .750 -.2175 -.2950 -.5210 -.4859 -.8913
 .900 -.2719 -.0936 -.2188 -.3773 -.6782



DATE 08 OCT 74

TABULATED SOURCE DATA - QAS7B

PAGE 203

GA57-B B16C5F1 J40 W8TE16 WING TOTAL SURFACE

(RDVW14) (12 NOV 73)

REFERENCE DATA

WREF = 4.4170 93.57 WARP = 43.5940 IN.
 LREF = 19.2300 IN. WARP = .0000 IN.
 BREF = 37.9350 IN. WARP = -.4050 IN.
 SCALE = .0403

BETA = .000 PTN/P = 1.300
 H/B = .286 BDFLAP = .000
 ELEVON = .000

PARAMETRIC DATA

MACH (1) = .165 ALPHA (1) = -4.010 RN/L = 1.200 MACH = .165
 ALPHA (2) = .005

SECTION (1) WING

DEPENDENT VARIABLE CP

Zr/B .0000 .3340 .5200 .6630 .8730

X/C

.900 -.0374 -.1060 -.0616 -.0434 -.1580
 .750 -.1631 -.2459 -.2090 -.3045 -.2978
 .600 -.2780 -.2256 -.1938 -.1838 -.2962
 .450 -.5655 -.4933 -.2156 -.1635 -.2530
 .300 -.5561 -.7227 -.3352 -.1763 -.2046
 .150 .0558 .2831 .5347 .3836 .0924
 .150 .0387 .1229 .2859 .2961 .1507
 .300 .1449 .2078 .3162 .3552 .3144
 .450 .0766 .2552 .2808 .2578 .0680
 .600 .0202 .1305 .1561 .1620 .2736
 .750 .0360 .0820 .0587 .0817 .0737
 .900 .1497 .0958 .1257 .1468 .0374

MACH (1) = .165 ALPHA (2) = .005 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Zr/B .0000 .3340 .5200 .6630 .8730

X/C

.900 -.0279 -.0845 -.0528 -.0560 -.1408
 .750 .1093 -.2060 .1616 .2664 .2521
 .600 .1934 .1285 .1121 .0935 .2223
 .450 .4388 .3821 .0932 .0468 .1573
 .300 .3354 .5461 .1781 .0109 .0507
 .150 .1249 .1085 .3566 .1282 .1699
 .150 .0795 .2335 .4421 .5461 .0477
 .300 .1910 .2963 .4101 .4904 .4178
 .450 .1191 .3108 .3371 .3304 .1114
 .600 .0135 .1521 .1797 .1932 .3135
 .750 .0367 .0470 .0579 .0553 .0632
 .900 .1440 .0854 .1161 .1360 .0143

DATE 08 OCT 74 TABULATED SOURCE DATA - 0A57B

(RDVW14)

CA57-B B16C5F1 J40 WOTE10 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (3) = 4.980 AN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0166 -.0711 -.1606 -.0975 -.1546
 -.750 -.0479 -.1435 -.2191 -.2283 -.2343
 -.600 -.0825 -.0297 -.1051 -.0095 -.1514
 -.450 -.3283 -.2133 .0480 .0844 -.0330
 -.300 -.2071 -.3193 -.0003 .1759 .0613
 -.150 -.2075 -.0749 -.1873 .1412 .3182
 .150 -.1416 -.4105 -.3741 -.6404 -.3847
 .300 -.2616 -.4376 -.4811 -.6305 -.5511
 .450 -.1742 -.3933 -.3672 -.3906 -.2548
 .600 -.0332 -.2137 -.2021 -.2354 -.3712
 .750 -.0912 -.0266 -.0857 .0083 -.1291
 .900 -.1606 .0424 .0072 .0977 -.0315

MACH (1) = .165 ALPHA (4) = 9.975 AN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0700 -.0203 -.1684 -.1232 -.1916
 -.750 .0280 -.0652 -.2455 -.1774 -.1820
 -.600 .0187 .0643 -.0667 .0957 -.0713
 -.450 -.1970 -.0663 .0907 .1946 .0593
 -.300 -.0364 -.1541 .1680 .3184 .1843
 -.150 .2975 .2113 -.0482 .3413 .4329
 .150 -.2007 -.7213 -.6704 -1.0996 -.8295
 .300 -.3106 -.5407 -.5641 -.7738 -.7315
 .450 -.2000 -.4580 -.4406 -.4939 -.5447
 .600 -.0758 -.2414 -.2633 -.3131 -.4718
 .750 -.1030 -.0289 -.1312 -.0280 -.2536
 .900 -.1701 .0425 .0176 .0809 -.1552

MACH (1) = .165 ALPHA (5) = 14.970 AN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0983 .0042 -.1443 -.1354 -.2380
 -.750 .0862 -.0114 -.1970 -.1438 -.1582
 -.600 .1131 .1431 -.0301 .1651 .0096
 -.450 -.1078 .0331 .1209 .3124 .1434
 -.300 .1030 -.0062 .2146 .4383 .2593



DATE 08 OCT 74 TABULATED SOURCE DATA - CA37B

(RDYN14)

CA37-B B16C-1 J40 WOTE10 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (5) = 14.970

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.150 .3652 .3166 .0369 .4598 .4732
 .150 -.2404 -1.1824 -.7844 -1.2660 -1.6156
 .300 -.3711 -.7199 -.6043 -.8683 -1.1298
 .450 -.2500 -.3913 -.4932 -.5216 -.8698
 .600 -.0721 -.2954 -.3058 -.3171 -.6679
 .750 -.1174 -.1256 -.1963 .0527 -.5284
 .900 -.2069 -.0052 -.0022 .0951 -.3999

MACH (1) = .165 ALPHA (6) = 20.010 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .1116 -.0304 -.2148 -.3663 -.3415
 -.750 .1351 -.0005 -.1094 -.2353 -.1637
 -.600 .1911 .1817 .0084 .1527 .0509
 -.450 .0042 .1559 -.1166 .3216 .1996
 -.300 .2411 .1416 .1073 .5224 .3268
 -.150 .4687 .4123 .0464 .6891 .5200
 .150 -.2855 -1.9257 -.7650 -1.3045 -1.1810
 .300 -.4219 -.8724 -.6634 -1.1950 -1.0736
 .450 -.2690 -.7291 -.7288 -1.0633 -1.0735
 .600 -.1338 -.4707 -.6020 -.9602 -.9992
 .750 -.2746 -.2579 -.4883 -.4095 -.8814
 .900 -.2706 -.0855 -.2175 -.3235 -.6411

REFERENCE DATA

BREF = 4.4120 93.FT. ZMRP = 47.5940 IN.
 LREF = 19.2300 IN. WMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.000
 M/B = .266 BDFLAP = -18.000
 ELEVON = .000

MACH (1) = .165 ALPHA (1) = -3.985 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.1087 -.1123 -.0822 -.0060 -.1495
 -.750 -.1634 -.2037 -.177~ -.2831 -.2877
 -.600 -.2105 -.1930 -.1668 -.1409 -.2886
 -.450 -.4517 -.4084 -.1590 -.1292 -.2393
 -.300 -.4491 -.6511 -.2335 -.1393 -.1796
 -.150 .0592 -.2411 -.4397 -.3192 -.0534
 .150 -.0462 -.1299 -.2959 -.3100 .1544
 .300 -.1546 -.2199 -.3023 -.3634 -.3144
 .450 -.0787 -.2618 -.2~53 -.2618 -.0713
 .600 .0113 -.1375 -.1619 -.1700 -.3645
 .750 -.0349 .0323 -.0805 .0817 -.0691
 .900 -.1508 .0786 .0986 .1296 .0210

MACH (1) = .165 ALPHA (2) = .015 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.0760 -.0863 -.0621 -.0371 -.1423
 -.750 -.1063 -.1727 -.1271 -.2562 -.2679
 -.600 -.1301 -.1072 -.0939 -.0748 -.2217
 -.450 -.3695 -.3104 -.0527 -.0243 -.1438
 -.300 -.2981 -.4675 -.1281 .0092 -.0436
 -.150 .1267 -.0788 -.2646 -.0888 .1950
 .150 -.0654 -.2481 -.4574 -.3681 -.0682
 .300 -.1990 -.3027 -.3901 -.5077 -.4193
 .450 -.1297 -.3204 -.3446 -.3339 -.1391
 .600 -.0210 -.1657 -.1920 -.2082 -.3514
 .750 -.0585 .0254 -.0762 .0412 -.0793
 .900 -.1541 .0676 .0840 .1209 .00~4

DATE 08 OCT 74 TABULATED SOURCE DATA - CAS78

(RDY413)

CAS78 B16C5F1 J40 WOTE10 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (5) = 14.975

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.150 .3787 .3215 .0429 .5838 .4711
 .150 -.2493 -1.1911 -.7705 -1.2949 -1.7249
 .300 -.3797 -.7298 -.5799 -.8978 -1.1514
 .450 -.2224 -.5985 -.4898 -.5389 -.9130
 .600 -.0806 -.3037 -.3104 -.3287 -.8085
 .750 -.1148 -.1353 -.1994 .0359 -.6070
 .900 -.2019 -.0002 -.0033 .0830 -.4341

MACH (1) = .165 ALPHA (6) = 0.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0766 -.0421 -.1715 -.1859 -.3728
 -.750 .1134 -.0111 -.0530 -.1112 -.2009
 -.600 .2135 .1732 .0722 .1720 .0163
 -.450 .0320 .1422 -.1156 .2751 .1601
 -.300 .2726 .1396 .1028 .4981 .2544
 -.150 .4655 .4144 .1067 .7377 .4975
 .150 -.2718 -1.4497 -.7342 -1.1145 -1.0323
 .300 -.4248 -.8623 -.6176 -1.1538 -.0013
 .450 -.2587 -.7485 -.7333 -1.1116 -1.0514
 .600 -.1303 -.4861 -.6656 -1.0045 -.9964
 .750 -.2096 -.2852 -.5057 -.5033 -.8934
 .900 -.2662 -.0894 -.2462 -.4169 -.6657

DATE 04 OCT 74

TABULATED SOURCE DATA - CAS70

(80VM16) (12 NOV 73)

CAS7-B B10CSF1 J40 W8TE18 WING TOTAL SURFACE

REFERENCE DATA

PARAMETRIC DATA

WREF = 4.4120 84-FT. WREF = 43.9940 IN. BETA = .000 PTN/P = 1.500
 WREF = 19.2100 IN. WREF = .0000 IN. M/B = .286 BOFLAP = -18.000
 WREF = 37.9350 IN. WREF = -.4050 IN. ELEVON = .000
 SCALE = .0405

MACH (1) = .165 ALPHA (1) = -3.985 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.1628 -.1482 -.1154 -.0780 -.1358
 -.750 -.2381 -.3179 -.2780 -.3279 -.2866
 -.600 -.3445 -.2437 -.2533 -.2281 -.3131
 -.450 -.6765 -.6142 -.5335 -.2136 -.2844
 -.300 -.5861 -.8184 -.4504 -.2366 -.2293
 -.150 .0312 -.3524 -.6657 -.4790 -.1471
 .150 -.0435 -.1134 -.2780 -.2875 .1434
 .300 -.1659 -.2077 -.2814 -.2615 -.3459
 .450 -.0835 -.2567 -.2812 -.2539 -.3052
 .600 .0185 -.1316 -.1525 -.1605 -.2158
 .750 -.0345 .0127 -.0479 .0625 .0068
 .900 -.1433 .1027 .1688 .1444 .0596

MACH (1) = .165 ALPHA (2) = .015 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.1603 -.1328 -.1043 -.0715 -.1241
 -.750 -.1892 -.2687 -.2206 -.2912 -.2556
 -.600 -.2497 -.1416 -.1533 -.1326 -.2448
 -.450 -.5546 -.4866 -.1898 -.0831 -.1873
 -.300 -.4230 -.7037 -.5310 -.0645 -.0846
 -.150 .1037 .1616 .5182 .2151 .1125
 .150 -.0804 .2312 .4421 .5520 .0325
 .300 .2177 .2892 .3723 .4262 .4867
 .450 .1314 .1157 .3406 .3285 .3796
 .600 .0193 .1596 .1811 .2057 .2653
 .750 -.0600 .0289 .0483 .0278 .0304
 .900 -.1436 .0867 .1455 .1278 .0391

(ADVV416)

CA37-B B18C5F1 J40 W07E10 WING OTAL SURFACE

MACH (1) = .165 ALPHA (3) = 5.000 RN/L = 1.000 J MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.1216 -.1135 -.2247 -.0986 -.1599
 -.750 -.1100 -.2053 -.2652 -.2490 -.2183
 -.600 -.1481 -.0502 -.1387 -.0320 -.1638
 -.450 -.3998 -.2887 -.0178 .0494 -.0659
 -.300 -.2326 -.4354 -.1076 .1234 .0559
 -.150 .1901 .0214 -.2755 .0707 .3075
 .150 -.1463 -.4080 -.5863 -.6318 -.3666
 .300 .2743 -.4198 -.4653 -.5808 -.6426
 .450 -.1728 -.3802 -.3651 -.3997 -.4975
 .600 -.0590 -.2255 -.2185 -.2425 -.3177
 .750 -.0883 -.0378 -.0794 -.0124 -.1217
 .900 -.1431 .0488 .0321 .0820 -.0354

MACH (1) = .165 ALPHA (4) = 10.000 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.0858 -.0752 -.2553 -.0835 -.1844
 -.750 -.0475 -.1346 -.2940 -.1709 -.1753
 -.600 -.0421 .0486 -.1384 .0812 -.1020
 -.450 -.2736 -.1436 .0424 .1668 .0527
 -.300 -.0838 -.2536 .0829 .2716 .1587
 -.150 .2714 .1734 -.1329 .2857 .4229
 .150 -.2174 -.7400 -.6416 -1.1098 -.8117
 .300 -.3544 -.5529 -.5417 -.7129 -.8020
 .450 -.2120 -.4713 -.4475 -.4831 -.6208
 .600 -.0904 -.2571 -.2597 -.3132 -.4017
 .750 -.1142 -.0570 -.1171 -.0464 -.2415
 .900 -.1593 .0230 .0268 .0636 -.1596

MACH (1) = .165 ALPHA (5) = 15.010 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.0348 -.0245 -.2270 -.1190 -.2209
 -.750 .0328 -.0482 -.2528 -.1235 -.1286
 -.600 .0885 .1428 -.0683 .1725 -.0204
 -.450 .1544 -.0124 .0829 .2975 .1266
 -.300 .0730 -.0747 .1898 .4000 .2513

QAS7-B B16C5F1 J40 WTE18 WING TOTAL SURFACE (RDVW18)

MACH (1) = .165 ALPHA (5) = 15.010

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .0000 .3340 .5200 .6630 .8730

X/C	.0000	.3340	.5200	.6630	.8730
-1.50	.3712	.2891	-.0241	.4204	.4644
-1.00	-.2484	-1.1475	-.7657	-1.2753	-1.5443
-.500	-.3952	-.6939	-.5823	-.8184	-1.0738
-.450	-.2249	-.5771	-.4893	-.5332	-.8895
-.600	-.0814	-.2967	-.3021	-.3280	-.6463
-.750	-.0993	-.1528	-.1714	.0280	-.4653
-.900	-.1633	.0161	.0200	.0862	-.3744

MACH (1) = .165 ALPHA (6) = 20.000 RN/L : 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C .0000 .3340 .5200 .6630 .8730

X/C	.0000	.3340	.5200	.6630	.8730
-1.50	-.0318	-.0460	-.2458	-.2636	-.2894
-1.00	.0868	-.0283	-.1284	-.1349	-.1076
-.600	.1587	.1955	-.0268	.2330	.0592
-.450	-.0530	.1271	-.1326	.3825	.2001
-.300	.2061	.0740	.1306	.5401	.334
-.150	.4617	.7694	-.0871	.5838	.5293
-.100	-.2816	-1.5124	-.7865	-1.3722	-1.3060
-.300	-.4499	-.6675	-.6365	-1.2263	-1.2252
-.450	-.2830	-.7036	-.6670	-.9954	-1.1146
-.600	-.1290	-.4426	-.5590	-.8575	-1.0790
-.750	-.1734	-.2473	-.4364	-.3167	-.9313
-.900	-.2249	-.0820	-.1493	-.2529	-.6703

DATE 08 OCT 74

TABULATED SOURCE DATA - QAS7B

PAGE 212

QAS7-B B16C5F1 J40 W07E10 WING TOTAL SURFACE

(RDW417) (12 NOV 73)

REFERENCE DATA

SREF = 4.4120 84.FT. XMRP = 43.5940 IN.
 LREF = 19.2300 IN. IMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.300
 H/B = .266 BDFLAP = -10.000
 ELEVON = .000

MACH (1) = .165 ALPHA (1) = -3.975 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Zr/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.1439 -.1256 -.0784 -.0483 -.1321
 -.750 -.2093 -.2740 -.2282 -.2953 -.2824
 -.600 -.2912 -.2153 -.2321 -.1917 -.2970
 -.450 -.5733 -.5209 -.2769 -.1823 -.2645
 -.300 -.5521 -.7902 -.3067 -.2004 -.2135
 -.150 .0446 -.3035 -.5865 -.4054 -.0892
 .150 -.0420 -.1184 -.2846 -.3017 .1425
 .300 -.1706 -.2086 -.2900 -.2974 -.3534
 .450 -.0857 -.2580 -.2870 -.2599 -.3011
 .600 .0136 -.1332 -.1613 -.1775 -.2426
 .750 -.0394 .0770 -.0820 .0477 -.0113
 .900 -.1485 .0844 .1174 .1247 .0538

MACH (1) = .165 ALPHA (2) = .005 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Zr/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.1280 -.1086 -.0639 -.0635 -.1242
 -.750 -.1615 -.2352 -.1776 -.2607 -.2452
 -.600 -.2093 -.1025 -.1342 -.1052 -.2330
 -.450 -.4700 -.4170 -.1450 -.0621 -.1706
 -.300 -.3900 -.6060 -.2117 -.0340 -.0655
 -.150 .1131 .1297 -.3839 -.1558 .1544
 .150 .0857 .2378 .4419 .5511 .0475
 .300 .2196 .3006 .3835 .4317 .4775
 .450 .1246 .3133 .3406 .3326 .3595
 .600 .0259 .1611 .1835 .2104 .2850
 .750 .0655 .0193 .0758 .0213 .0491
 .900 .1408 .0805 .1093 .1165 .0360

CA57-B 818C3F1 J40 W07E18 WING TOTAL SURFACE (RDVW17)

MACH (1) = .165 ALPHA (3) = 5.000 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/Y

-.900 -.0890 -.0931 -.1582 -.0886 -.1490
 -.750 -.0872 -.1710 -.2185 -.2184 -.2007
 -.600 -.0942 -.0034 -.1136 -.0101 -.1576
 -.450 -.3312 -.2903 .0403 .0803 -.0347
 -.300 -.2058 -.3565 -.0222 .1680 .0767
 -.150 .2036 .0589 -.1938 .1275 .3209
 .150 -.1410 -.4044 -.5752 -.6478 -.3742
 .300 .2880 -.4303 -.4801 -.5774 -.6286
 .450 .1674 -.3909 -.3683 -.3913 -.4554
 .600 .0352 -.2165 -.2072 -.2469 -.3439
 .750 .0947 .0447 .0859 .0119 .1201
 .900 .1402 .0474 .0142 .0832 .0233

MACH (1) = .165 ALPHA (4) = 9.975 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.0463 -.0425 -.1780 -.1030 -.1850
 -.750 -.0163 -.0692 -.2274 -.1625 -.1666
 -.600 .0065 .0976 -.0638 .0904 -.0931
 -.450 -.2082 -.0914 .0817 .1875 .0600
 -.300 -.0410 .1926 .1782 .3034 .1710
 -.150 .2908 .1999 .0724 .3239 .4453
 .150 .2012 .7155 .6663 -1.0915 .8287
 .300 .3301 .5309 .5482 .7130 .7872
 .450 .2013 .4542 .4373 .4912 .6054
 .600 .0795 .2429 .2606 .3134 .4381
 .750 .1089 .0607 .1414 .0367 .2670
 .900 .1555 .0390 .0153 .0679 .1898

MACH (1) = .165 ALPHA (5) = 15.000 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.0211 -.0202 -.1497 -.1444 -.2233
 -.750 .0517 .0141 .1921 .5211 .1418
 -.600 .0979 .1822 .0213 .0156 .0156
 -.450 .1108 .0161 .1241 .0124 .256
 -.300 .1704 .0395 .2911 .0156 .2425

DATE 08 OCT 74 TABULATED SOURCE DATA - CA57B

(RDYV17)

CA57-B B16C5F1 J40 W07E10 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (5) = 15.000

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.150 .3792 .3079 .0155 .4421 .4741
.150 -.2432 -1.1622 -.7713 -1.2576 -1.6147
.300 -.3992 -.7128 -.5927 -.8095 -1.1032
.450 -.2285 -.5949 -.4992 -.5169 -.8870
.600 -.0813 -.2928 -.3048 -.3133 -.6636
.750 -.1007 -.1367 -.2016 .0184 -.5309
.900 -.1773 -.0039 .0106 .0780 -.4011

MACH (1) = .165 ALPHA (6) = 20.005 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.0044 -.0481 -.1923 -.3145 -.2765
-.750 .0946 -.0017 -.1009 -.1941 -.1079
-.600 .1806 .2214 .0102 .1734 .0537
-.450 .0023 .1623 -.1226 .3294 .2101
-.300 .2375 .1240 .1346 .5268 .3319
-.150 .4665 .4005 .0279 .6904 .5265
.150 -.2828 -1.4884 -.7649 -1.3375 -1.3041
.300 -.4567 -.8622 -.6690 -1.3212 -1.1853
.450 -.2691 -.7030 -.6322 -.9773 -1.1061
.600 -.1318 -.4364 -.5564 -.8607 -1.0834
.750 -.1824 -.2775 -.4478 -.3692 -.8995
.900 -.2199 -.0790 -.1806 -.2777 -.6798



QAS7-B B16CSF1 J40 W0TE18 WING TOTAL SURFACE

(RDVW18) (12 NOV 73)

REFERENCE DATA

SREF = 4.4180 82.FT. XMRP = 43.5940 IN.
 LAEF = 18.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.000
 H/B = .286 BDFLAP = -.18.000
 ELEVON = .000

MACH (1) = .165 ALPHA (1) = -3.990 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.1655 -.1208 -.1004 -.0242 -.1322
 -.750 -.1925 -.2163 -.1793 -.2662 -.2699
 -.600 -.2213 -.1457 -.1888 -.1478 -.2905
 -.450 -.4612 -.4202 -.2049 -.1484 -.2513
 -.300 -.4640 -.6890 -.2020 -.1643 -.1838
 -.150 -.0606 -.2451 -.4879 -.3402 -.0377
 .150 -.0383 -.1243 -.2988 -.3310 .1386
 .300 -.1779 -.2073 -.3049 -.2906 -.3672
 .450 -.0919 -.2673 -.3042 -.2806 -.2796
 .600 .0121 -.1499 -.1774 -.1956 -.2468
 .750 -.0452 .0113 -.0900 .0477 -.0207
 .900 -.1501 .0520 .0841 .1009 .0424

MACH (1) = .165 ALPHA (2) = .035 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.1467 -.1015 -.0760 -.0603 -.1490
 -.750 -.1534 -.2202 -.1520 -.2596 -.2608
 -.600 -.1577 -.0680 -.1173 -.0897 -.2385
 -.450 -.3688 -.3290 -.1012 -.0496 -.1729
 -.300 -.3289 -.5238 -.1488 -.0188 -.0689
 -.150 .1157 .0985 .2999 .1191 .1925
 .150 .0932 .2546 .4642 .5796 .0665
 .300 -.2374 .3087 .4127 .4114 .5086
 .450 .1399 .3224 .3568 .3884 .3609
 .600 .0380 .1894 .2792 .2800 .3788
 .750 .0831 .0417 .1131 .0131 .0274
 .900 .1535 .0449 .0771 .0119 .0149

(RDVW18)

CA37-B B16CSF1 J40 W8TE18 WING TOTAL SURFACE
MACH (1) = .165 ALPHA (3) = 3.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C
-.900 -.1093 -.0896 -.1609 -.0664 -.1706
-.750 -.0886 -.1721 -.2058 -.1918 -.2076
-.600 -.0619 .0233 -.1036 .0275 -.1687
-.450 -.2758 -.1919 .0901 .1121 -.0291
-.300 -.1590 -.3160 .0148 .1974 .0745
-.150 .2021 .0817 -.1676 .1593 .3655
.150 -.1472 .4059 -.5968 -.8551 -.3687
.300 -.2985 -.4223 -.4793 -.5482 -.6455
.450 -.1765 .3847 -.3738 -.3989 -.4532
.600 -.0642 .2228 -.2217 -.2509 -.3599
.750 -.1080 .0764 .0966 -.0032 -.1348
.900 -.1548 .0182 -.0083 .0785 -.0350

MACH (1) = .165 ALPHA (4) = 10.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C
-.900 -.0609 -.0557 -.1734 -.0348 -.1934
-.750 -.0154 -.0939 -.2299 -.1121 -.1795
-.600 .0354 .1102 -.0986 .1201 -.1080
-.450 -.1711 -.0743 .1041 .2270 .0499
-.300 .0008 -.1669 .1776 .3311 .1680
-.150 .2877 .2119 -.0703 .3637 .4632
.150 -.2070 -.7222 -.6521 -1.1137 -.8640
.300 -.3566 -.5202 -.5614 -.6964 -.8080
.450 -.2092 -.4856 -.4373 -.4745 -.5976
.600 -.0861 -.2615 -.2779 -.3207 -.4716
.750 -.1168 -.0992 -.1421 -.0325 -.2885
.900 -.1698 -.0043 .0022 .0697 -.2081

MACH (1) = .165 ALPHA (5) = 14.995 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C
-.900 -.0191 -.0480 -.0878 -.0863 -.2335
-.750 .0492 .0456 -.0513 -.0831 -.1416
-.600 .1292 .1970 .0153 .1609 -.0273
-.450 -.0682 .0439 -.0530 .2719 .1167
-.300 .1449 -.0090 .1764 .4681 .2395

DATE 08 OCT 74 TABULATED SOURCE DATA - CA37B

(RDVW18)

CA37-B B16C5F1 J40 W8TE18 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (5) = 14.995

SECTION (1) WING DEPENDENT VARIABLE CP

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.150 .3768 .3144 .0689 .5738 .4798
 .150 -.2376 -1.1992 -.7565 -1.2911 -1.7739
 .300 -.4097 -.7080 -.6102 -.8337 -1.2393
 .450 -.2281 -.6126 -.4728 -.5434 -.9813
 .600 -.0751 -.3007 -.3142 -.3320 -.7284
 .750 -.1108 -.1484 -.2094 -.0036 -.5578
 .900 -.1771 -.0074 -.0066 .0429 -.4356

MACH (1) = .165 ALPHA (6) = 19.995 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.0125 -.0690 -.1635 -.1690 -.3126
 -.750 .0739 -.0213 -.0349 -.0920 -.1438
 -.600 .1935 .2134 .0855 .1774 .0130
 -.450 .0191 .1436 -.0891 .2763 .1644
 -.300 .2614 .1260 .1100 .5032 .2936
 -.150 .4641 .4003 .0716 .7328 .5036
 .150 -.2791 -1.4504 -.7401 -1.2013 -1.1949
 .300 -.4645 -.8485 -.6417 -1.3332 -1.1209
 .450 -.2774 -.7379 -.6699 -1.1706 -1.0121
 .600 -.1365 -.4808 -.5993 -1.0371 -1.0897
 .750 -.2017 -.2901 -.4460 -.4166 -.9384
 .900 -.2332 -.0787 -.2094 -.3297 -.7268

CA37-B B16C3F1 J40 W8TE18 WING TOTAL SURFACE

(RDW419) (12 NOV 73)

REFERENCE DATA

BREF = 4.4120 SQ.FT. XMRP = 43.5946 IN.
 LREF = 19.2300 IN. RMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4030 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PIN/P = 1.500
 H/B = .286 BDFLAP = 20.000
 ELEVON = .000

MACH (1) = .165 ALPHA (1) = -3.985 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

21/B .0000 .3340 .5200 .6430 .6730

X/C

-.900 .1309 -.0410 -.0674 -.0694 -.1584
 -.750 -.1115 -.1845 -.2301 -.3219 -.3036
 -.600 -.2922 -.1479 -.2211 -.1993 -.2923
 -.450 -.6007 -.5137 -.3179 -.1876 -.2665
 -.300 -.5290 -.8448 -.3498 -.2140 -.2102
 -.150 .0495 -.3432 -.6358 -.4370 -.0566
 .150 -.0463 -.1228 -.2860 -.3072 .1532
 .300 -.1625 -.1952 -.3013 -.2433 -.3515
 .450 -.0977 -.2545 -.2955 -.2653 -.2633
 .600 .0013 -.1488 -.1619 -.1636 -.2018
 .750 -.0503 .0212 -.0534 .0735 .0017
 .900 -.2164 .0923 .1488 .1591 .0658

MACH (1) = .165

ALPHA (2) = -.010

RN/L = 1.200

MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

21/B .0000 .3340 .5200 .6630 .6730

X/C

-.900 .1441 -.0325 -.0906 -.0776 -.1604
 -.750 -.0760 -.1628 -.1982 -.2926 -.2730
 -.600 -.2104 -.0537 -.1290 -.1086 -.2355
 -.450 -.4939 -.3967 -.1827 -.0693 -.1845
 -.300 -.3873 -.6704 -.2397 -.0505 -.0707
 -.150 .1093 -.1825 -.4441 -.1806 .1939
 .150 -.0976 -.2369 -.4571 -.3653 -.0629
 .300 -.2316 -.3091 -.4110 .3887 .4833
 .450 -.1465 -.3224 -.3638 .3509 .3563
 .600 -.0441 -.1946 -.2039 .2109 .2553
 .750 -.1048 -.0409 -.0735 .0403 .0395
 .900 -.2274 .0614 .1201 .1398 .0381

DATE 08 OCT 74 TABULATED SOURCE DATA - CA57B (ADVW19)
 CA57-B B16C3F1 J40 WATE18 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (3) = 4.975 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/Z2 .0000 .3340 .5200 .6630 .8730

X/C				
.900	.2109	-.0080	-.1694	-.1030
.750	.0110	-.1035	-.2282	-.2133
.600	-.0868	.0612	-.0939	.0093
.450	-.3318	-.1941	.0560	.0842
.300	-.1941	-.3878	-.0538	.1656
.150	.2080	.0488	-.2194	.1168
.150	-.1492	-.3989	-.5665	-.8262
.300	-.2835	-.4207	-.4756	-.6278
.450	-.1715	-.3810	-.3735	-.3828
.600	-.0735	-.2222	-.2069	-.2204
.750	-.1226	-.0993	-.0840	.0217
.900	-.2216	.0362	.0175	.1080

MACH (1) = .165 ALPHA (4) = 9.975 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/Z2 .0000 .3340 .5200 .6630 .8730

X/C				
.900	.2486	.0239	-.1948	-.1203
.750	.0642	-.0305	-.2282	-.1716
.600	.0123	.1444	-.0709	.0980
.450	-.2195	-.0673	.0874	.1890
.300	-.0505	-.2031	.1129	.2972
.150	.2885	.1927	-.1070	.3041
.150	-.2197	-.7321	-.6453	-.11056
.300	-.3725	-.5615	-.5644	-.5705
.450	-.2252	-.4984	-.4599	-.4279
.600	-.1065	-.2677	-.2788	-.2868
.750	-.1590	-.1415	-.1378	-.0227
.900	-.2590	.0013	.0160	.0748

MACH (1) = .165 ALPHA (5) = 14.990 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/Z2 .0000 .3340 .5200 .6630 .8730

X/C				
.900	.3025	.0707	-.1499	-.1478
.750	.1517	.0523	-.1796	.1035
.600	.1270	.2352	-.0553	.0544
.450	-.0977	.0543	.1350	.1304
.300	.1111	-.0249	.1111	.2471

DATE 08 OCT 74

TABULATED SOURCE DATA - CAST8

(RDYH18)

MACH (1) = .165 ALPHA (5) = 14.990

SECTION (1) WING DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .6730

X/C

-.150 .3910 .3132 -.0009 .4324 .5035
.150 -.2483 -1.1603 -.7900 -1.2969 -1.5351
.300 -.4127 -.7243 -.6440 -.6548 -1.0614
.450 -.2441 -.6210 -.4985 -.4894 -.6810
.600 -.0945 -.3193 -.3473 -.3017 -.6581
.750 -.1412 -.2045 -.2167 -.0208 -.5309
.900 -.2591 -.0074 .0129 .0390 -.4006

MACH (1) = .165 ALPHA (6) = 19.980 RN/L = 1.800 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .6730

X/C

-.900 .3284 .0447 -.2770 -.3665 -.4037
-.750 .1870 .0703 -.1153 -.2017 -.1857
-.600 .1936 .2528 -.0174 .1910 .0061
-.450 -.0033 .1815 -.1637 .3645 .1721
-.300 .2167 .1158 .1054 .5369 .3071
-.150 .4617 .3900 -.1055 .6101 .5135
.150 -.3124 -1.6000 -.8288 -1.3299 -1.2492
.300 -.4981 -.9148 -.7144 -1.2862 -1.2180
.450 -.3204 -.7769 -.7346 -1.2046 -1.1505
.600 -.1649 -.5113 -.6698 -1.0291 -1.1357
.750 -.2335 -.3446 -.5242 -.4642 -.9901
.900 -.3318 -.1096 -.2402 -.4073 -.7643

REFERENCE DATA PARAMETRIC DATA

MEEF = 4.4180 83.FT. ZMRP = 43.5940 IN. BETA = .000 PTN/P = 1.300
 LAEF = 19.2300 IN. ZMRP = .0000 IN. H/B = .286 BDFLAP = 20.000
 W/L = 31.8330 IN. ZMRP = -.4050 IN. ELEVON = .000
 SCALE = .0405

MACH (1) = .165 ALPHA (1) = -4.000 RN/L = 1.200 MACH = 1.65

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	.1334	-.0477	-.0651	-.0244	-.1517
-.750	-.0938	-.1803	-.1895	-.2863	-.2938
-.600	-.2496	-.1223	-.1829	-.1584	-.2869
-.450	-.5398	-.4420	-.2555	-.1541	-.2470
-.300	-.5117	-.7607	-.2671	-.1704	-.1903
-.150	-.0375	-.2981	-.5581	-.5669	-.0134
.000	-.0432	-.1235	-.2821	-.2963	.1534
.150	-.1752	-.2050	-.3085	-.0102	-.3554
.300	-.0947	-.2574	-.3039	-.1963	-.2591
.450	.0018	-.1534	-.1631	-.1523	-.2165
.600	-.0547	-.0046	-.0697	.0884	.0002
.750	-.2099	.0733	.1189	.1488	.0676

MACH (1) = .165 ALPHA (2) = .000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	.1553	-.0284	-.0469	-.0481	-.1553
-.750	-.0430	-.1467	-.1405	-.2544	-.2594
-.600	-.1742	-.0229	-.1044	-.0813	-.2313
-.450	-.4292	-.3258	-.1259	-.0315	-.1557
-.300	-.3492	-.5622	-.1601	-.0059	-.0484
-.150	.1223	-.1370	-.3590	-.1274	.2454
.000	-.0921	-.2524	-.4591	-.5679	-.0616
.150	-.2270	-.2991	-.4032	-.1692	-.4818
.300	-.1370	-.3131	-.3593	-.2523	-.3426
.450	-.0438	-.1914	-.2094	-.2029	-.2754
.600	-.0964	-.0447	.0754	.0521	-.0388
.750	-.2137	.0575	.1065	.1362	.0477

(80VM20)

C457-B B16C5F1 J40 W07E18 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (3) = 4.975 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.900 .2086 -.0155 -.1359 -.1009 -.1070
-.750 .0311 -.0967 -.1914 -.2211 -.2266
-.600 -.0597 .0692 -.0890 .0070 -.1579
-.450 -.2988 -.1741 .0981 .1014 -.0277
-.300 -.1836 -.1204 .0140 .1927 .0774
-.150 .2109 .0657 -.1661 .1555 .3798
.150 -.1522 -.4241 -.5950 -.8521 -.3850
.300 .2892 -.4333 .4796 .3312 .6249
.450 .1870 -.3958 -.3787 .3417 -.4540
.600 -.0790 -.2418 -.2301 -.2370 .3358
.750 .1255 .1251 .0947 .0332 .1193
.900 .2329 .6154 .0075 .1087 .0201

MACH (1) = .165 ALPHA (4) = 9.990 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.900 .2657 .0397 -.1266 -.1220 -.2157
-.750 .0952 -.0169 -.1655 -.1667 .1915
-.600 .0515 .1753 .0039 .1056 .1066
-.450 .1725 .0210 .1186 .2128 .0625
-.300 .0126 .1440 .1964 .3355 .1776
-.150 .3051 .2214 .1049 .3489 .4755
.150 .2041 .7006 .6415 .1.0993 .8754
.300 .3665 .5570 .5748 .5219 .8093
.450 .2149 .4876 .4497 .4627 .6009
.600 .0936 .2541 .2744 .2768 .4559
.750 .1550 .1578 .1477 .0012 .2689
.900 .2491 .0020 .0144 .0907 .1772

MACH (1) = .165 ALPHA (5) = 14.995 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.900 .3066 .0558 -.1110 -.1559 -.2652
-.750 .1648 .0589 .1359 .1395 .1644
-.600 .1359 .2343 .0072 .1903 .0229
-.450 .0683 .0722 .1486 .3191 .1227
-.300 .1525 .0131 .1863 .4432 .2447

DATE 08 OCT 74 TABULATED SOURCE DATA - QAS7B

(8DVW20)

QAS7-B B16C3F1 J40 WATE10 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (5) = 14.995

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C

-.150 .3426 .3199 .0239 .4453 .4860
 .150 -.2674 -1.2182 -.7687 -1.2364 -1.6064
 .300 -.4126 -.6647 -.6997 -.7251 -1.0998
 .450 -.2483 -.8295 -.5220 -.5034 -.9397
 .600 -.1127 -.3342 -.3466 -.4721 -.7033
 .750 -.1446 -.2155 -.2324 -.0218 -.5743
 .900 -.1426 -.0422 .0056 .0375 -.4234

MACH (1) = .165 ALPHA (6) = 19.990 RW/L = 1.200 MACH = 1.1

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y/B .0000 .2140 .5200 .6630 .8730

X/C

-.900 .3477 .0386 -.2212 -.3824 -.5794
 -.750 .2164 .0744 -.1045 -.2349 -.1705
 -.600 .2235 .2810 .0110 .1529 .0277
 -.450 .0474 .2175 .0640 .3168 .2007
 -.300 .2691 .1803 .1592 .5240 .3255
 -.150 .4761 .4234 .0942 .7096 .5331
 .150 -.3062 -1.5592 -.7764 -1.3199 -1.1949
 .300 -.4818 -.9062 -.7944 -1.3328 -1.2048
 .450 -.3086 -.7541 -.8154 -1.1400 -1.1243
 .600 -.1647 -.4919 -.6336 -1.0236 -1.1336
 .750 -.2269 -.3427 -.5038 -.4579 -1.0019
 .900 -.3231 -.1214 -.2294 -.3150 -.7349

(ADVM21) (12 NOV 75)

0457-B B16C5F1 J40 W07E10 WING TOTAL SURFACE

REFERENCE DATA

PARAMETRIC DATA

MREF = 4.4120 53. FT. XMRP = 43.5940 IN.
 LREF = 19.2300 IN. LMRP = .0000 IN.
 BREF = 37.9330 IN. ZMRP = -.4050 IN.
 SCALE = .0405

BETA = .000 PTN/P = 1.000
 H/B = .286 BDFLAP = 20.000
 ELEVON = .000

MACH (1) = .165 ALPHA (1) = -3.975 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0119 -.0728 -.0887 -.0517 -.1597
 -.750 -.1043 -.1813 -.1535 -.2455 -.2795
 -.600 -.1690 -.0963 -.1484 -.1233 -.2853
 -.450 -.3959 -.3591 -.1839 -.1256 -.2429
 -.300 -.4121 -.6249 -.1826 -.1380 -.1654
 -.150 .0679 -.2432 -.4619 -.3020 .0229
 .150 -.0463 -.1284 -.2788 -.3306 1241
 .300 -.1868 -.2281 -.3445 -.1322 -.3632
 .450 -.0958 -.2786 -.3522 -.2311 -.2712
 .600 -.0022 -.1524 -.1780 -.1719 -.2444
 .750 -.0383 -.0483 -.0909 .0741 -.0089
 .900 -.1886 .0223 .0750 .1134 .0522

MACH (1) = .165 ALPHA (2) = .025 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0463 -.0476 -.0587 -.0288 -.1616
 -.750 -.0506 -.1455 -.1037 -.2364 -.2557
 -.600 -.0912 -.0089 -.0808 -.0602 -.2344
 -.450 -.3191 -.2664 -.0756 -.0151 -.1399
 -.300 -.2660 -.4728 -.0908 .0198 -.0381
 -.150 .1341 -.0983 -.2620 -.0876 .2797
 .150 .0847 -.2507 -.4525 -.5872 -.0944
 .300 -.2328 -.3068 -.4202 -.2603 -.4966
 .450 -.1413 -.3392 -.3655 -.2905 -.3379
 .600 -.0379 -.5857 -.2136 -.2109 -.2941
 .750 -.0933 -.0838 -.0857 .0613 -.0469
 .900 -.1967 .0193 .0749 .1277 .0411

DATE 08 OCT 74

TABULATED SOURCE DATA - QAS7B

PAGE 225

(RDVW21)

MACH (1) = .165 ALPHA (3) = 5.0° RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .1132 -.0234 -.1535 -.0697 -.2041
 -.750 .0037 -.1069 -.1861 -.1868 -.2162
 -.600 -.0042 .0718 -.0703 .0561 -.1692
 -.450 -.2034 -.1219 .1135 .1329 .0207
 -.300 .1138 -.1249 .0370 .2261 .0886
 -.150 .2111 .0936 -.1413 .1976 .3913
 .150 .1545 .4101 .5789 .8407 .3988
 .300 .3089 .4523 .5087 .4136 .6435
 .450 .1726 .4045 .3733 .3780 .4606
 .600 .0795 .2309 .2149 .2239 .3472
 .750 .1377 .1634 .1066 .0367 .1203
 .900 .2029 .0046 .0311 .1046 .0376

MACH (1) = .325 ALPHA (4) = 10.005 RN/L = 1.200 MACH = .325

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .1473 .0029 -.1508 -.0842 -.2344
 -.750 .0772 .0303 .2010 .1206 .2089
 -.600 .0889 .1556 .0628 .1307 .1116
 -.450 .1107 .0174 .1177 .2381 .0453
 -.300 .0358 .0424 .1834 .3704 .1695
 -.150 .2956 .2240 .0642 .3690 .4715
 .150 .2111 .7325 .6559 .11367 .8918
 .300 .3585 .5560 .6466 .6045 .9256
 .450 .2143 .4938 .4675 .5157 .6064
 .600 .0995 .2748 .2901 .3137 .4688
 .750 .1517 .1876 .1521 .0097 .2919
 .900 .2379 .0532 .0186 .0836 .2137

MACH (1) = .165 ALPHA (5) = 15.015 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .2272 .0261 -.0863 .07994 -.2678
 -.750 .1461 .0259 .0375 .1002 .1837
 -.600 .1806 .2360 .0357 .1516 .10402
 -.450 .0096 .0987 .0224 .0000 .1205
 -.300 .1797 .1803 .1647 .4421 .2313

(ROW21)

QAS7-B B16C5F1 J40 W0TE10 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (5) = 15.015

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .3200 .6630 .8730

X/C

-.150 .3884 .3381 .0744 .6016 .4732
 .150 -.2484 -1.1970 -.7579 -1.3285 -1.6632
 .300 -.4198 -.7546 -.8717 -.3089 -1.1327
 .450 -.2385 -.6134 -.3320 -.5280 -.9365
 .600 -.0946 -.3179 -.3223 -.3203 -.7159
 .750 -.1450 -.2121 -.1956 -.0203 -.5931
 .900 -.2486 -.0151 -.0379 .0648 -.4476

MACH (1) = .165 ALPHA (6) = 20.005 AN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .3200 .6630 .8730

X/C

-.900 .2576 .0042 -.2164 -.1407 -.3803
 -.750 .1774 .0370 -.1647 -.0517 -.1944
 -.600 .2455 .2618 -.0579 .2231 -.0088
 -.450 .0769 .2024 -.0578 .3188 .1682
 -.300 .2962 .2973 .2319 .4908 .2666
 -.150 .4698 .4257 .2825 .7485 .5069
 .150 -.2946 -1.5275 -.7682 -1.2941 -1.1950
 .300 -.4830 -.9197 -.7443 -1.3612 -1.1390
 .450 -.3030 -.7564 -.8305 -1.2146 -1.0968
 .600 -.1544 -.5067 -.6928 -1.1022 -1.1530
 .750 -.2395 -.3415 -.5455 -.4587 -.9968
 .900 -.3107 -.0992 -.2579 -.3497 -.7456

GA57-B B16C5F1 J40 W07E18 WING TOTAL SURFACE (RDYV22) (12 NOV 73)

REFERENCE DATA

BREF = 4.4120 83.FT. XMRP = 43.5940 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.500
 H/B = .125 BDFLAP = 20.000
 ELEVON = .000

MACH (1) = .165 ALPHA (1) = -3.980 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

2r/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0403 -.1521 -.1626 -.1588 -.2159
 -.750 -.2753 -.4087 -.3762 -.4238 -.3943
 -.600 -.6105 -.3674 -.3772 -.3328 -.3870
 -.450 -.9324 -.8103 -.5681 -.3507 -.3693
 -.300 -.9263 -.9723 -.6050 -.3846 -.3181
 -.150 -.0178 -.5851 -.9432 -.6312 -.1829
 .150 -.0627 -.1452 -.2741 -.3196 .1553
 .300 -.1978 -.2495 -.3271 -.1762 -.3652
 .450 -.1156 -.3079 -.3506 -.2607 -.2911
 .600 -.0113 -.1560 -.1904 -.1797 -.2644
 .750 -.0748 -.0549 -.1024 .0632 -.0142
 .900 -.2338 .0638 .0880 .1202 .0263

MACH (1) = .165 ALPHA (2) = .020 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

2r/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0901 -.1031 -.1523 -.1257 -.1744
 -.750 -.1558 -.2816 -.2703 -.3494 -.3232
 -.600 -.3180 -.1397 -.1948 -.1380 -.2780
 -.450 -.6270 -.4889 -.2678 -.1132 -.2148
 -.300 -.4290 -.4560 -.3014 -.0929 -.1190
 -.150 -.1272 -.1911 -.5159 -.2206 .1662
 .150 -.1126 -.2843 -.4480 -.5879 -.0576
 .300 -.2453 -.3373 -.4172 -.3252 -.5135
 .450 -.1745 -.3798 -.3900 -.3353 -.3499
 .600 -.0640 -.2115 -.2222 -.2152 -.3037
 .750 -.1164 -.0958 -.1010 .0441 -.0591
 .900 -.2660 .0386 .0745 .1225 .0297

CA57-B B16C3F1 J40 WOTE18 WING TOTAL SURFACE (RDVW22)

MACH (1) = .165 ALPHA (3) = 5.005 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .2283 -.0158 -.2063 -.1622 -.2130
 -.750 .0283 -.0858 -.2410 -.2760 -.2596
 -.600 -.0433 .0888 -.1078 -.0256 -.1943
 -.450 -.2973 -.1323 .0412 .0728 -.0532
 -.300 -.0927 -.0930 -.0209 .1747 .0478
 -.150 .2567 .1245 -.2253 .1553 .3513
 .150 -.11626 -.5033 -.5989 -.8918 -.4250
 .300 -.3111 -.3236 -.5001 -.4741 -.6637
 .450 -.2116 -.4841 -.3994 -.4228 -.4694
 .600 -.0887 -.2440 -.2552 -.2560 -.3580
 .750 -.1552 -.1363 -.1329 .0176 -.1371
 .900 -.2766 .0132 -.0587 .0844 -.0440

MACH (1) = .165 ALPHA (4) = 9.995 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .7577 .1103 -.0860 -.1599 -.2466
 -.750 .1955 .0976 -.0880 -.2139 -.2214
 -.600 .1388 .2527 .0297 .0987 -.1181
 -.450 -.0706 .0631 .1468 .2136 .0350
 -.300 .1061 .1345 .1737 .3254 .1556
 -.150 .3603 .2898 -.0549 .3513 .552
 .150 -.2146 -.7164 -.6791 -1.1418 -.9094
 .300 .3740 .5628 -.5843 -.6490 -.8193
 .450 -.2249 -.5030 -.4688 -.5155 -.6093
 .600 -.1009 -.2796 -.2918 -.2979 -.4823
 .750 -.7597 -.1940 -.1613 -.0022 -.2922
 .900 .673 .0152 -.0026 .0850 -.2162

MACH (1) = .165 ALPHA (5) = 14.995 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .4662 .2024 -.0635 -.1707 -.3017
 -.750 .3209 .2256 .0366 -.1602 -.1852
 -.600 .2619 .3538 .1138 .2108 -.0258
 -.450 .0737 .1823 .2322 .3455 .1162
 -.300 .2376 .2568 .2214 .4489 .2431

DATE OF OCT 74 TABULATED SOURCE DATA - CAS7B

CAS7-B B1635F1 J40 W0TE10 WING TOTAL SURFACE (RDW022)

MACH (1) = .165 ALPHA (5) = 14.995

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B	.0000	.3340	.5200	.5630	.8730
X/C					
-.150	.4463	.3949	-.1483	.2772	.4760
.150	-.2758	-1.2547	-.7904	-1.2863	-2.0718
.300	-.4335	-.7731	-.6873	-.8166	-1.2537
.450	-.2531	-.6275	-.5920	-.5283	-1.0363
.600	-.1211	-.3528	-.3637	-.3342	-.7507
.750	-.1652	-.2448	-.2545	-.1436	-.6017
.900	-.1264	-.0078	-.0335	-.0493	-.4542

MACH (1) = .165 ALPHA (6) = 20.015 RW/L = 1.200 MACH = (5)

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	.5318	.2216	-.1469	-.3975	-.3645
-.750	.4085	.2908	-.0009	-.2817	-.1764
-.600	.3688	.4355	.0834	.1511	.0315
-.450	.1985	.3394	.1265	.3576	.1906
-.300	.3680	.4224	.2221	.5508	.3005
-.150	.5346	.4972	.0575	.7131	.5204
.150	-.3097	-1.6400	-.8099	-1.4457	-1.2378
.300	-.4919	-.9170	-.7560	-1.3996	-1.1765
.450	-.3385	-.8058	-.9590	-1.2232	-1.1122
.600	-.1841	-.5415	-.7549	-1.0940	-1.1172
.750	-.2522	-.3744	-.5745	-.5244	-.9825
.900	-.3402	-.1026	-.3494	-.5044	-.7277

CA57-B B16C9F1 J40 W07E18 WING TOTAL SURFACE

(RDW423) (12 NOV 73)

REFERENCE DATA

BREF = 4.4125 34.FT. XMRP = 43.5940 IN.
 LREF = 59.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.300
 H/B = .175 BDFLAP = 20.000
 ELEVON = .000

MACH (1) = .165 ALPHA (1) = -3.975 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/H/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	.0623	-.1287	-.1266	-.1256	-.1977
-.750	-.2144	-.3283	-.2935	-.3626	-.3531
-.600	-.4762	-.2854	-.3079	-.2816	-.3626
-.450	-.7621	-.6422	-.4736	-.2732	-.3219
-.300	-.7829	-.6901	-.4749	-.2824	-.2671
-.150	.0411	-.4706	-.7773	-.4266	-.1041
.000	-.0562	-.1498	-.2851	-.3436	.1411
.150	-.1961	-.2430	-.3265	-.2141	-.3713
.300	-.1101	-.3004	-.3392	-.2801	-.2754
.450	-.0086	-.1743	-.1986	-.1976	-.2669
.600	-.0696	-.0630	-.1093	.0590	-.0138
.750	-.2196	.0465	.0750	.1128	.0384

MACH (1) = .165 ALPHA (2) = .000 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/H/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	.1373	-.0623	-.0798	-.0861	-.1770
-.750	-.0982	-.2298	-.1934	-.2923	-.2835
-.600	-.2297	-.0658	-.1452	-.1036	-.2541
-.450	-.4754	-.3579	-.1611	-.0582	-.1859
-.300	-.3527	-.2933	-.2080	-.0231	-.0729
-.150	.1558	-.1133	-.3903	-.1369	.2417
.000	-.0976	-.2677	-.4461	-.5923	-.0660
.150	-.2417	-.3344	-.4161	-.3539	-.4994
.300	-.1447	-.3477	-.3731	-.3403	-.3506
.450	-.0515	-.1969	-.0215	-.2168	-.2984
.600	-.1069	-.1151	-.1056	.0433	-.0469
.750	-.2306	.0451	.0756	.1189	.0278



CA57-B B16C5F1 J40 W67E10 WING TOTAL SURFACE (RDVW23)

$$\text{MACH } (1' = .165) \quad \text{ALPHA } (3) = 4.985 \quad \text{RN/L} = 1.200 \quad \text{MACH} = .165$$

SECTION (1) WING

21/6	.0000	.3340	.5200	.6630	.8730
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31X

- .900	.2511	.0012	-.1405	-.1474	-.2170
-.750	.0648	-.0373	-.1649	-.2459	-.2475
-.600	.0048	.1245	-.0604	.0036	-.1843
-.450	-.2173	.0342	.0934	.1090	-.0274
-.300	-.0441	.0018	.0423	.2226	.0619
-.150	.2671	.1568	-.1372	.2442	.3789
.150	.1563	.5210	.5891	.8877	.4453
.300	.3136	.5459	.5077	.5115	.6737
.450	.2009	.4861	.3937	.4208	.4655
.600	-.0924	.2424	.2438	.2607	.3518
.750	.1516	.1579	.1386	.0036	.1528
.900	-.2682	.0048	-.0639	.0771	-.0108

$$\text{MACH} (1) = .165 \quad \text{ALPHA} (4) = 10.000 \quad \text{RN/L} = 1.200 \quad \text{MACH} = 65$$

SECTION (1) WING DEFICIENT VARIABLE CP

21/8	.0000	.3340	.5200	.6630	8730
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31x

- .900	.3666	.0964	-.0345	-.1450	-.2597
-.750	.2061	.0954	-.0365	-.1959	-.2224
-.600	.1650	.2674	.0320	.0969	-.1286
-.450	-.0292	.0680	.1586	.2300	.0309
-.300	.1374	.1975	.1956	.3577	.1588
-.150	.3620	.3041	-.0054	.4034	.4806
.150	-.2222	-.7298	-.7211	-1.1612	-.9761
.300	-.3851	-.5605	-.5635	-.6802	-.8373
.450	-.23.2	-.4594	-.5103	-.5349	-.6329
.600	-.1092	-.2879	-.3131	-.3266	-.4260
.750	-.1716	-.2051	-.1691	-.0196	-.3163
.900	-.2819	-.0564	-.0139	.0714	-.2376

$$\text{MACR} (1) = .165 \quad \text{ALPHA} (5) = 15.010 \quad \text{AN/L} = 1.200 \quad \text{MACR} = .165$$

SECTION (1) WING

	2170	.0000	.3346	52.19	.5530	8735
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-	900	4893	1741	-	0376	-	108	-	3	2
-	750	3219	1957	-	477	-	2	-	169	
-	600	2615	3510	-	650	-	391	-	0316	
-	450	1	2141	-	253	-	1	-	034	
-	300	1922	3119	-	260	-	1	-	0374	

CM37-B 816C5F1 J40 W8TE18 WING TOTAL SURFACE

(XDVW23)

MACH (1) = .165 ALPHA (5) = 15.010

SECTION (1) WING

DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.150 .4524 .4078 -.1348 .4507 .4629
 .150 -.2702 -1.2652 -.8092 -1.3403 -2.6411
 .500 -.4529 -.8057 -.6930 -.8063 -1.6095
 .450 -.2655 -.6446 -.5971 -.5633 -1.3721
 .600 -.1214 -.3711 -.3896 -.3761 -.8984
 .750 -.1793 -.2702 -.2851 -.1726 -.6442
 .900 -.2768 -.0275 -.0600 -.0799 -.4808

MACH (1) = .165 ALPHA (6) = 19.990 RV/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .5435 .1998 -.1474 -.3567 -.3787
 -.750 .4145 .2690 -.0395 -.2341 -.1597
 -.600 .3870 .4441 .0659 .1211 .0428
 -.450 .2422 .3651 .1748 .2352 .2.14
 -.300 .4121 .4697 .3179 .5067 .3116
 -.150 .5375 .5149 .5146 .7565 .5365
 .150 -.3136 -1.6252 -.7927 -1.4788 -1.2707
 .300 -.5152 -.9541 -.7506 -1.4321 -1.2119
 .450 -.3398 -.7645 -.8791 -1.3263 -1.2278
 .600 -.1916 -.5484 -.7580 -1.1148 -1.1809
 .750 -.2743 -.4061 -.5856 -.5424 -1.0223
 .900 -.5414 -.1122 -.3965 -.4970 -.7657



C457-R B16C5F1 J40 W07E10 WING TOTAL SURFACE

(ROW24) (12 NOV 73)

REFERENCE DATA

$\alpha = 4.4120$ DEGREE
 $WREF = 19.2300$ IN.
 $BREF = 37.9350$ IN.
 $SCALE = .0405$

$WREF = 43.5940$ IN.
 $BREF = .0000$ IP.
 $WREF = -.4050$ IN.
 $SCALE = .0405$

PARAMETRIC DATA

$BETA = .000$
 $PTN/P = 1.000$
 $REF = .125$
 $BOFLAP = 20.000$
 $ELEVATION = .000$

$MACH (1) = .165$
 $ALPHA (1) = -3.980$
 $AN/L = 1.200$
 $MACH = 1.7$

SECTION (1) WING DEPENDENT VARIABLE CP

21/R	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	-.0392	-.1390	-.1386	-.0932	-.1910
-.750	-.1850	-.2682	-.2326	-.3170	-.3264
-.600	-.2940	-.1915	-.2245	-.1862	-.3310
-.450	-.5285	-.4654	-.2955	-.1940	-.2933
-.300	-.5594	-.4602	-.3334	-.2135	-.2215
-.150	.0702	.3313	.5607	.2814	-.0125
.000	-.0605	-.1579	-.2900	-.3500	.1174
.150	-.2019	-.2568	-.3412	-.2721	-.3901
.300	-.1067	-.3041	-.3366	-.2877	-.2826
.450	-.0146	-.1753	-.1964	-.1906	-.2674
.600	-.0702	-.1146	-.1300	.0480	-.0258
.750	-.1923	.0450	.0534	.0842	.0332

$MACH (1) = .165$
 $ALPHA (2) = .025$
 $AN/L = 1.200$
 $MACH = .5$

SECTION (1) WING DEPENDENT VARIABLE CP

21/R	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	.0448	-.0584	-.0942	-.0700	-.1826
-.750	-.0866	-.1948	-.1427	-.2584	-.2714
-.600	-.1145	-.0278	-.1066	-.0701	-.2562
-.450	-.3493	-.2705	-.1049	-.0243	-.1547
-.300	-.2414	-.1775	-.1308	.0257	-.0489
-.150	.1734	-.0494	-.2776	-.0382	.2713
.000	-.0969	-.2744	.4570	-.6116	-.1153
.150	-.2531	-.3367	-.4138	-.3866	-.3132
.300	-.1448	-.3616	-.3844	-.3541	-.3724
.450	-.0316	-.3344	-.2900	-.2900	-.3154
.600	-.1090	-.1743	-.1177	.2474	-.2135
.750	-.2120	-.0470	.1040	.0700	.0700

DATE 06 OCT 74 TABULATED SOURCE DATA - GA37B (RDVW24)

MACH (1) = .95 ALPHA (3) = 4.995 RW/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .1601 -.0026 -.1508 -.1035 -.2229
 -.750 .0562 -.0594 -.1634 -.1810 -.2329
 -.600 .0637 .17 2 -.0448 .0601 -.1798
 -.450 -.1396 -.0517 .1143 .1543 -.0150
 -.300 .0189 .0568 .0619 .2747 .0807
 -.150 .2718 .1819 .1061 .2968 .4059
 .150 -.1627 -.3141 -.6035 -.9067 -.4657
 .300 -.3189 -.5365 -.5111 -.5585 -.6836
 .450 -.1989 -.4872 -.3998 -.4340 -.4789
 .600 -.0901 -.2444 -.2534 -.2719 -.3332
 .750 -.1516 -.1779 -.1389 .0014 -.1610
 .900 -.2355 .0170 -.0519 .0762 -.0279

MACH (1) = .165 ALPHA (4) = 10.005 RW/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .2675 .0700 -.0681 -.1081 -.2447
 -.750 .1875 .0645 -.0822 -.1326 -.2169
 -.600 .1990 .2551 .0446 .1271 -.1122
 -.450 .0336 .1025 .1622 .2359 .0372
 -.300 .1888 .2284 .1793 .4243 .1640
 -.150 .3571 .3160 .0186 .5103 .4902
 .150 -.2295 -.7332 -.5783 -1.1459 -1.0000
 .300 -.3817 -.765 -.5706 -.7193 -.8494
 .450 -.2216 -.4936 -.5048 -.5381 -.6454
 .600 -.1143 -.2889 -.2977 -.3187 -.5296
 .750 -.1602 -.2130 -.1765 -.0194 -.3367
 .900 -.2325 -.0035 -.0119 .0726 -.2509

MACH (1) = .165 ALPHA (5) = 14.995 RW/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .3564 .1301 -.0437 -.0625 -.2781
 -.750 .2978 .1506 -.0003 -.0757 -.1707
 -.600 .3089 .3425 .0680 .1839 -.0177
 -.450 .1571 .2223 .0903 .2656 .1111
 -.300 .3227 .3387 .2267 .5097 .2190



DATE OF OUTPUT

CALCULATED SOURCE DATA - CASE/B

AGE 235

WING PLAN AREA 163 ALPHA (5) = 14.404

(RDVWZ4)

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C Y/C Z/C

.150	.4493	.4196	.0620	.6681	.4736
.150	-.2752	-1.2519	-.7535	-1.3428	-2.6638
.300	-.4486	-.8036	-.6486	-.8691	-1.7511
.450	-.2559	-.6305	-.6231	-.5227	-1.3152
.600	-.1217	-.3505	-.3504	-.3536	-.7636
.750	-.1684	-.2647	-.2550	-.1228	-.6279
.900	-.2311	-.0187	-.0219	-.0344	-.4563

MACH (1) = .165 ALPHA (6) = 19.995 PNVL = 1.200 MACH = 1.1

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C Y/C Z/C

.150	.4166	.1322	-.1501	-.1369	-.4094
.300	.3627	.1974	-.3553	-.0228	-.2016
.450	.3956	.4042	.0375	.2466	.0033
.600	.2642	.3339	.1365	.2971	.1572
.750	.4378	.4645	.3868	.4276	.2498
.900	.3327	.5125	.4406	.8059	.5090
.150	-.3143	-1.6137	-.7841	-1.4207	-1.1054
.300	-.5005	-.9607	-.7365	-1.2337	-1.1151
.450	-.3593	-.6074	-.6792	-1.2219	-1.1248
.600	-.1920	-.3885	-.7834	-1.1223	-1.1290
.750	-.2453	-.4372	-.6561	-.6653	-.9848
.900	-.3212	-.1197	-.3981	-.5550	-.7953

REFERENCE DATA

SAEP = 4.4120 RJ.FT. WMP = 43.5940 IN.
 LAEP = 19.2300 IN. WMP = .0000 IN.
 SAEP = 37.9350 IN. WMP = -.4050 IN.
 SCALE = .0403

PARAMETRIC DATA

BETA = .000 PTN/P = 1.900
 H/B = .125 BDFLAP = .000
 ELEVON = .000

MACH (1) = .165 ALPHA (1) = 10.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/r/B	.0000	.3340	.5200	.6630	.8730
X/C					
-900	1.2255	.3437	.0356	.0697	-.3807
-750	.9402	.4637	.3210	-.0203	-.4188
-600	.4371	.5639	.2790	.1407	-.3606
-450	.2846	.4066	.3134	.1410	-.1922
-300	.4136	.3256	.2295	.1870	-.0424
-150	.4748	.4743	.0922	.2946	.3453
.150	-.2316	-.7477	-.7145	-1.1148	-.8949
.300	-.3676	-.5474	-.5707	-.6271	-.8216
.450	-.2392	-.5025	-.4693	-.4945	-.6284
.600	-.1076	-.2895	-.3057	-.3133	-.4427
.750	-.1537	-.0463	-.2082	-.0045	-.2824
.900	-.2452	.0158	.0492	.0584	-.2491

MACH (1) = .165 ALPHA (2) = 14.985 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/r/B	.0000	.3340	.5200	.6630	.8730
X/C					
-900	1.1548	.5446	.2233	.2129	-.4336
-750	.7001	.6325	.4339	.1158	-.3678
-600	.5294	.6429	.2291	.2086	-.2368
-450	.4007	.4848	.221	.124	-.0719
-300	.4663	.5139	.2754	.2381	.0743
-150	.5164	.44	-.1412	.4272	.4006
.150	-.2776	-1.256	-1.1959	-2.3465	
.300	-.4397	-.7570	-.6391	-.6820	-1.4431
.450	-.2717	-.6167	-.5773	-.5111	-1.3028
.600	-.1265	-.3610	-.4005	-.3753	-.8384
.750	-.1769	-.1712	-.3087	-.1579	-.7150
.900	-.2620	-.0118	-.0172	-.0735	-.4556



(RDVN23)

DATE 08 OCT 74
 CALCULATED SURFACE DATA - CASE 7B
 23 P 816551 JAC 407E10 WING TOTAL SURFACE
 MACH (1) = .165 CPWA (3) = 19.950 RWL = 1.200 MACH = .165

SECTION 11 WING
 SEGMENT VARIANCE OF

Z/2	.0000	.3340	.5200	.6640	8140
R/R					
- .900	1.2114	.6177	.2320	.1247	.4837
- .750	.7611	.6914	.4848	-.0532	.3300
- .600	.5934	.6986	.2727	.1514	-.0868
- .450	.4663	.9481	.3571	.1192	.0435
- .300	.5261	.4902	.2418	.2192	.2157
- .150	.5910	.5776	-.2262	-.0346	.4729
.150	-.3333	-1.6835	-.8013	-1.7850	-1.2365
.300	-.5123	-.9002	-.8057	-1.2968	-1.1450
.450	-.3960	-.8120	-.9156	-1.0979	-1.1326
.600	-.2342	-.6798	-.7370	-.9646	-1.0171
.750	-.15518	-.5050	-.6216	-.5639	-.8563
.900	-.3516	-.0951	-.2430	-.4890	-.6799

CA57-B 316C5F1 J40 W0TE18 WING TOTAL SURFACE (RDW028) (12 NOV 73)

REFERENCE DATA

SAF = 4.4120 83.FT. XPR = 43.5940 IN.
LREF = 19.2300 IN. FMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.300
M/B = .125 BOFLAP = .000
ELEVON = .000

MACH (1) = .165 ALPHA (1) = 10.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .6412 .2576 .0464 .1030 -.3759
-.750 .4967 .3706 .2523 -.0097 -.3950
-.600 .4304 .3367 .1859 .1052 -.3702
-.450 .3035 .4081 .2913 .1221 -.2027
-.300 .4463 .3638 .2747 .2131 -.0509
-.150 .4692 .4814 .0982 .3512 .3318
.000 .2356 -.7342 .6850 -1.1147 -.9466
.150 -.3977 -.5609 -.5658 -.5923 -.8221
.300 -.2283 -.4947 .4627 .4836 .6308
.450 -.1029 -.2874 .3105 .3133 .4645
.600 -.1480 -.1214 -.2181 -.0072 -.2955
.750 -.2192 .0150 .0424 .0511 -.2629

MACH (1) = .165 ALPHA (2) = 14.985 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .9116 .4113 .1832 .1848 -.4540
-.750 .6756 .5314 .3883 .0857 -.3826
-.600 .5063 .6111 .2011 .1796 -.2385
-.450 .3925 .4762 .3327 .1919 -.0546
-.300 .4955 .4340 .2957 .2303 .0875
-.150 .5360 .5305 .1736 .3672 .4032
.000 .2931 -1.2933 -.7695 -1.2008 -2.6638
.150 -.4507 -.7719 .6586 .6681 -1.7203
.300 -.2829 -.6282 .5944 .5164 -1.4559
.450 -.1245 -.3608 .4063 .3722 -.9987
.600 -.1704 -.2163 .3186 .3707 -.7909
.750 -.2429 -.0167 .0371 .1003 .4585

DATE 06 OCT 74 TABULATED SOURCE DATA - QAS7B

(RDW26)

CAST-B B16C5F1 J40 WOTE:8 WING TOTAL SURFACE
MACH (1) = .165 ALPHA (3) = 20.005 RN/L = 1.200 MACH = .165

DEPENDENT VARIABLE CP

SECTION (1) WING

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 1.0624 .4758 .1717 .0959 -.4953
-.750 .7498 .5835 .4078 -.0031 -.3085
-.600 .5636 .5610 .3227 .2159 -.0596
-.450 .4677 .5403 .3975 .2093 .1186
-.300 .5659 .5030 .2659 .2543 .2423
-.150 .5943 .5783 .11545 -.0612 .4685
.150 -.3687 -1.7165 -.8756 -1.7391 -1.2289
.300 -.4958 -.9133 -.7922 -1.2956 -1.1728
.450 -.4187 -.8073 -.9153 -1.0869 -1.1279
.600 -.2225 -.6120 -.7412 -.9451 -1.0309
.750 -.2925 -.3835 -.6445 -.5666 -.8542
.900 -.3061 -.0958 -.3170 -.5092 -.6787

CA57-B B16C5F1 J40 WOTE18 WING TOTAL SURFACE

(RDVW27) (12 NOV 73)

REFERENCE DATA

WREF = 4.4120 83-FT. XMRP = 43.5940 IN.
LREF = 19.2500 IN. YMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

MACH (1) = .165 ALPHA (1) = 9.985 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .2381 .1339 .0414 .0163 -.4381
-.750 .2857 .1683 .1381 -.1965 -.4128
-.600 .3863 .4084 .0929 -.0116 -.2940
-.450 .2508 .2882 .2620 .0820 -.1343
-.300 .4413 .3494 .2114 .3325 -.0056
-.150 .4553 .4570 .0807 .4825 .3717
.150 -.2804 -.7158 -.6956 -1.1146 -1.0029
.300 -.3775 -.5495 -.5624 -.5987 -.8744
.450 -.2457 -.5059 -.5051 -.5103 -.6782
.600 -.1046 -.2900 -.3163 -.3276 -.4912
.750 -.1385 -.1616 -.2237 -.0193 -.3747
.900 -.2056 .0035 .0174 .0274 -.3470

MACH (1) = .165 ALPHA (2) = 14.985 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .4629 .2410 .0655 .0433 -.4120
-.750 .4790 .3103 .2285 -.0424 -.3092
-.600 .4910 .4984 .2263 .0702 -.2192
-.450 .3822 .3729 .2893 .1424 -.0152
-.300 .5066 .4283 .2292 .2915 .1077
-.150 .5215 .5238 .0286 .5095 .3991
.150 -.3033 -.9839 -.7324 -1.1192 -2.6596
.300 -.3791 -.7091 -.6099 -.5914 -1.5928
.450 -.2842 -.5678 -.5463 -.4498 -1.3678
.600 -.1389 -.3714 -.4047 -.3839 -.8247
.750 -.1946 -.2771 -.3782 -.1876 -.7616
.900 -.2267 -.0444 -.1228 -.1202 -.4429

PARAMETRIC DATA

BETA = .000 PTN/P = 1.000
H/B = .125 BDFLAP = .000
ELEVON = .000

DATE 08 OCT 74 TABULATED SOURCE DATA - CA378

(ROW27)

CA378-B B1635F1 JAC 487E18 WING TOTAL SURFACE
MACH (1) = .165 ALPHA (3) = 13.09C RAYL = 1.200 MACH = .165

SECTION 1: WING DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.900	.6238	.2956	.0240	-.0004	-.4018
-.750	.5917	.3666	.2609	-.0228	-.2539
-.600	.5483	.5594	.3282	.2421	-.1457
-.450	.4552	.4335	.4126	.3470	.0417
-.300	.5659	.4825	.2266	.3701	.2024
-.150	.5845	.5726	-.0386	.0328	.4646
.150	-.3326	-1.5821	-.8226	-1.7489	-1.1812
.300	-.4253	-.8309	-.7798	-1.3119	-1.1476
.450	-.4379	-.8373	-.8530	-1.0809	-1.0912
.600	-.2768	-.6046	-.7376	-.9670	-.9927
.750	-.3152	-.4047	-.6431	-.5471	-.8195
.900	-.2968	-.1580	-.3849	-.5294	-.6325

REFERENCE DATA

BAEF = 4.4120 83.FT. 10MRP = 43.5940 IN.
LREF = 19.2300 IN. 1MRP = .0000 IN.
BAEF = 37.9350 IN. 2MRP = -.4050 IN.
SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.500
H/B = .125 BDFLAP = -18.000
ELEVCH = 15.000

MACH (1) = .165 ALPHA (1) = -4.025 AN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.1549 -.2477 .0430 .0659 -.0229
-.750 -.2198 -.1220 .1565 .1967 .0812
-.600 -.4927 -.2076 -.125 -.0488 .0466
-.450 -.8050 -.5678 -.2548 .0917 -.1124
-.300 -.7804 -.7812 -.3182 -.1531 -.1156
-.150 .0425 -.4691 -.7957 .3967 .0451
.150 -.0857 -.2280 -.3271 -.4112 .0509
.300 -.1939 -.2562 -.4080 .2283 .5342
.450 -.1454 -.3702 -.3648 .4301 .5908
.600 -.0382 -.2991 -.3465 .3942 .4248
.750 -.0937 -.3313 -.4305 .6685 .3007
.900 -.2169 -.1482 -.0751 -.0314 -.1174

MACH (1) = .165 ALPHA (2) = -.020 AN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.1017 -.0793 .3038 .1758 -.0387
-.750 -.1146 .0346 .2767 .3230 .1274
-.600 -.2140 .0038 .0305 .0829 .0977
-.450 -.4969 -.2685 -.0556 .0888 .0144
-.300 -.3306 -.3326 -.1155 .0848 .0462
-.150 .1613 -.1016 -.3764 -.0389 .3098
.150 .1336 .3648 .5006 .7046 .1761
.300 .2509 .3538 .5006 .3832 .6875
.450 .1944 .4293 .4376 .5204 .6848
.600 .0845 .3343 .3801 .4405 .5320
.750 .1176 .3273 .3939 .6431 .3584
.900 .1882 .1612 .1297 .0702 .1796

DATE 09 OCT 74 TABULATED SOURCE DATA - QAS7B

(RDVW28)

QAS7-B B16C5F1 J40 W87E18 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (3) = 4.950 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0013 .0699 .2702 .2533 -.0861
-.750 .0592 .2224 .3436 .4328 .1381
-.600 .0274 .2174 .1314 .1988 .1313
-.450 -.1938 .0015 .1774 .2411 .0921
-.300 -.0319 -.0175 .1410 .3047 .1325
-.150 .2802 .1764 -.1191 .2942 .4384
.150 -.2089 -.5587 -.6496 -1.0077 -.6200
.300 -.3182 -.5375 -.5929 -.5482 -.8795
.450 -.2362 -.5139 -.4732 -.6080 -.8305
.600 -.1045 -.3886 -.3916 -.4801 -.6671
.750 -.1514 -.3404 -.3142 -.6131 -.5021
.900 -.1687 -.1690 -.2205 -.1625 -.3352

MACH (1) = .165 ALPHA (4) = 9.965 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .1056 .2426 .4799 .2552 -.1394
-.750 .2122 .3677 .4166 .4835 .1409
-.600 .1841 .3518 .2269 .2855 .1727
-.450 -.0007 .1663 .2756 .3584 .1610
-.300 .1485 .1976 .3235 .4251 .2290
-.150 .3748 .3177 .3496 .4483 .4979
.150 -.3044 -.6971 -.7391 -1.2590 -1.2115
.300 -.3692 -.6280 -.6198 -.7105 -1.1232
.450 -.2626 -.5684 -.5493 -.6705 -1.0110
.600 -.1306 -.4037 -.4328 -.5252 -.7934
.750 -.1545 -.3469 -.4074 -.5820 -.6620
.900 -.1629 -.1750 -.0918 -.1382 -.5016

MACH (1) = .165 ALPHA (5) = 14.965 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .1683 .3124 .4071 .2316 -.1413
-.750 .3018 .4338 .5074 .5383 .1981
-.600 .2900 .4301 .2756 .3855 .2503
-.450 .1144 .2607 .2332 .4729 .2505
-.300 .2853 .3097 .2724 .5742 .3387

CA37-B B16C5F1 J40 W07E10 WING TOTAL SURFACE (RDW020)

MACH (1) = .165 ALPHA (5) = 14.965

SECTION (1) WING DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.150 .4614 .4183 -.1138 .4925 .5140
.150 -.3467 -.9853 -.8258 -1.3013 -.7741
.300 -.4293 -.7855 -.7068 -.7731 -1.9679
.450 -.3092 -.7043 -.6548 -.6245 -1.5779
.600 -.1616 -.4763 -.5226 -.5301 -1.1845
.750 -.1793 -.3608 -.3203 -.4412 -1.1419
.900 -.1924 -.2454 -.2262 -.2549 -.8307

MACH (1) = .165 ALPHA (6) = 19.990 RV/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.900 .1929 .3083 .2524 -.1231 -.1027
-.750 .3531 .4681 .4951 .4107 .2530
-.600 .3704 .4817 .2406 .2943 .3149
-.450 .2233 .3787 .2021 .4270 .3216
-.300 .3753 .4305 .2358 .6039 .4094
-.150 .5396 .5077 .2864 .7482 .5564
.150 -.4084 -1.3077 -.8628 -1.3979 -1.2220
.300 -.5155 -.8816 -.9419 -1.3016 -1.1672
.450 -.4674 -.9203 -1.0191 -1.1979 -1.1603
.600 -.2898 -.6989 -.8842 -1.1339 -1.0676
.750 -.3056 -.5078 -.8535 -.8040 -.9548
.900 -.2729 -.3758 -.5445 -.7103 -.7879

REFERENCE DATA

MRP = 4.4120 82 FT. XMRP = 43.5940 IN.
LREF = 19.2300 IN. RMRP = 0000 IN.
GRN = 37.9350 IN. ZMRP = -1.4050 IN.
SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.300
H/B = .123 BDFLAP = -10.000
ELEVTR = 15.000

MACH (1) = .165 ALPHA (1) = -4.010 AN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.1371 -.2512 .1345 .0715 -.0458
-.750 -.1708 -.1205 .1436 .1639 .0765
-.600 -.3561 -.1709 -.0694 -.0346 .0314
-.450 -.6077 -.3679 -.1735 -.0535 -.1049
-.300 -.6438 -.5293 -.2198 -.0779 -.0844
-.150 .0703 -.3461 .6271 -.2746 .0982
.150 -.0897 -.4128 .3609 -.4280 -.0075
.300 -.2267 -.2473 -.4193 -.1553 -.5401
.450 -.1416 -.3492 .3403 -.4423 -.5876
.600 -.0374 -.2938 .3612 -.4110 -.4173
.750 -.1033 -.1545 -.4324 -.7405 -.3037
.900 -.2068 -.2410 .1358 -.0527 -.1394

MACH (1) = .165 ALPHA (2) = -.030 AN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.0433 -.0338 .1706 .1640 -.0612
-.750 -.0534 .0534 .2093 .2968 .1130
-.600 -.1348 .0509 .0481 .0846 .0867
-.450 -.3578 -.2006 -.0101 .1101 .0225
-.300 -.2653 -.1863 -.0363 .1342 .0493
-.150 .1787 -.0365 -.2398 .0350 .3284
.150 -.1361 -.3767 .5315 -.7136 -.1765
.300 -.2829 -.3420 .5022 .3067 .6938
.450 -.1936 -.4123 .4027 .5117 .6774
.600 -.0625 -.3213 .3846 .4425 .5221
.750 -.1247 -.1428 .3900 .6796 .3723
.900 -.1876 -.2931 .1615 .0919 .1549

(RDVW29)

CA37-B 816C3F1 J40 WATE10 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (3) = 4.965 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C

-.900	.0848	.0907	.1473	.1743	-.0963
-.750	.1044	.2304	.3218	.3864	.1319
-.600	.0847	.2497	.1389	.1794	.1158
-.450	-.1150	.0813	.2250	.2595	.0954
-.300	.0226	.0825	.2204	.3583	.1277
-.150	.2953	.2142	-.0474	.3582	.4510
.000	-.2411	-.8097	-.6655	-1.0098	-.6432
.150	-.3434	-.5300	-.5657	-.4740	-.8699
.300	-.2247	-.5204	-.4546	-.5920	-.8107
.450	-.1005	-.3533	-.3847	-.4717	-.6379
.600	-.1508	-.1665	-.276	-.6390	-.4889
.750	-.1634	-.2603	-.1639	-.1511	-.3249

MACH (1) = .165 ALPHA (4) = 9.965 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C

-.900	.1727	.2202	.2420	.1620	-.1499
-.750	.2270	.3563	.3731	.4192	.1396
-.600	.2201	.3651	.2223	.2441	.1566
-.450	.0464	.1930	.2889	.3636	.1533
-.300	.1865	.2622	.3511	.4730	.2248
-.150	.5830	.3426	.0872	.4850	.4941
.000	-.3097	-.9011	-.7779	-1.2686	-1.2758
.150	-.3943	-.5861	-.6204	-.6578	-1.1259
.300	-.2584	-.5528	-.5422	-.6663	-1.0163
.450	-.1270	-.3633	-.4128	-.5017	-.8213
.600	-.1694	-.0881	-.3837	-.5472	-.6803
.750	-.1675	-.3121	-.1756	-.1411	-.5234

MACH (1) = .165 ALPHA (5) = 14.950 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C

-.900	.2132	.2736	.2521	.1585	-.1277
-.750	.3083	.3927	.3964	.4308	.2083
-.600	.3152	.4297	.2648	.2881	.2545
-.450	.1597	.2944	.2087	.3956	.2500
-.300	.3088	.3650	.2491	.5622	.3359

DATE 08 OCT 74 TABULATED SOURCE DATA - CASHB

(PDVW29)

CASHB 816.5F1 J40 W07E18 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (5) = 14.950

SECTION (1) WING DEPENDENT VARIABLE CP

21/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.150	.4873	.4384	-.0119	.6444	.5083
.150	-.3398	-1.3521	-.0401	-1.3670	-2.3243
.300	-.4420	-.7745	-.7410	-.7757	-2.4098
.450	-.3150	-.7082	-.6511	-.6285	-1.8681
.600	-.1710	-.4512	-.5134	-.5038	-1.2916
.750	-.2114	-.3149	-.5324	-.4638	-1.2583
.900	-.2029	-.3860	-.2664	-.2408	-.8395

MACH (1) = .165 ALPHA (6) = 19.960 RN/L = 1.200 MACH = 1.1

SECTION (1) WING DEPENDENT VARIABLE CP

21/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	.2367	.3063	.2042	.0161	-.1107
-.750	.3553	.4226	.4157	.3755	.2413
-.600	.3927	.4614	.3070	.2728	.2979
-.450	.2499	.3534	.3771	.3434	.3061
-.300	.4208	.4521	.3763	.4289	.3836
-.150	.5473	.5160	.0089	.5309	.5424
.150	-.3637	-1.6295	-.0465	-1.3650	-1.1975
.300	-.4745	-.8961	-.8752	-1.3176	-1.1694
.450	-.4117	-.9172	-1.0033	-1.2427	-1.1315
.600	-.2950	-.6717	-.6934	-1.1703	-1.0743
.750	-.3528	-.5421	-.8475	-.9479	-.9945
.900	-.2892	-.4443	-.5444	-.6920	-.8599

CAST7-B B16C5F1 J40 W07E10 WING TOTAL SURFACE (RDVMS0) (12 NOV 73)

REFERENCE DATA

REF = 4.4120 82.FT. XMRP = 43.5940 IN.
LREF = 19.2300 IN. YMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0403

MACH (1) = .165 ALPHA (1) = -4.000 AN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.1218 -.0958 .0139 .0907 -.0630
-.750 -.1409 -.0708 .0636 .1530 .0774
-.600 -.1913 -.0700 -.0347 -.0141 .0440
-.450 -.4170 -.2466 -.0644 -.0198 -.0873
-.300 -.4415 -.3220 -.1335 -.0035 -.0716
-.150 .1046 -.2178 -.4560 -.1643 .1550
.150 -.0784 -.3124 -.3609 -.4370 -.0103
.300 -.2294 -.2701 -.4283 -.1262 -.5533
.450 -.1360 -.3527 -.3443 -.4442 -.5975
.600 -.0314 -.2939 -.3522 -.4145 -.4052
.750 -.0962 -.2813 -.4261 -.7583 -.3155
.900 -.1887 -.2876 -.1206 -.0469 -.1551

MACH (1) = .165 ALPHA (2) = -.020 AN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.0561 -.0059 .0481 .1147 -.0799
-.750 -.0630 -.0463 .1318 .2872 .1065
-.600 -.0436 .0821 .0425 .0782 .0824
-.450 -.2386 -.1128 .0427 .1201 .0227
-.300 -.1687 -.0976 .0114 .1779 .0546
-.150 .1919 .0079 .1794 .0902 .3479
.150 .1304 .4619 .3255 .7259 .1978
.300 .2920 .3704 .3101 .2726 -.6940
.450 .1893 .4132 .4186 .5198 .6870
.600 .0646 .3363 .3860 .4342 .5207
.750 .1318 .2843 .3754 .6947 .3725
.900 .1835 .2628 .1557 .0948 .1804

PARAMETRIC DATA

BETA = .000 PTN/P = 1.000
H/B = .125 BDFLAP = -18.000
ELEVON = 15.000

DATE 06 OCT 74 TABULATED SOURCE DATA - CA37B
CA37-B B16C5F1 J40 W07E10 WING TOTAL SURFACE (RDVW50)

MACH (1) = .165 ALPHA (3) = 4.965 RV/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

R1/R .0000 .3340 .5200 .6630 .8730

X/C
-.900 .0268 .0877 .0461 .1115 -.1100
-.750 .0740 .2009 .2546 .3625 .1169
-.600 .1237 .2362 .0955 .1683 .1048
-.450 -.0600 .0690 .2273 .2683 .1008
-.300 .0726 .1242 .2329 .4000 .1195
-.150 .2915 .2298 -.0300 .3951 .4623
-.150 -.2320 -.6556 -.6763 -1.0288 -.6729
-.300 -.3488 -.5609 -.5843 -.4642 -.8873
-.450 -.2318 -.5413 -.4708 -.6075 -.8145
-.600 -.1072 -.3628 -.3969 -.4922 -.6478
-.750 -.1627 -.2839 -.3293 -.6908 -.5147
-.900 -.1738 -.2581 -.1879 -.1492 -.3560

MACH (1) = .165 ALPHA (4) = 9.985 RV/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

R1/R .0000 .3340 .5200 .6630 .8730

X/C
-.900 .1099 .1750 .0949 .1442 -.1615
-.750 .1850 .2921 .2846 .3177 .1361
-.600 .2548 .3496 .1673 .2148 .1529
-.450 .0952 .1935 .2519 .3130 .1569
-.300 .2288 .2834 .3584 .5187 .2319
-.150 .3809 .3548 .1194 .5926 .7527
-.150 -.2779 -.8582 -.7315 -1.2746 -1.3374
-.300 -.4124 -.5912 -.6213 -.6517 -1.1324
-.450 -.2568 -.5832 -.5418 -.6824 -1.0184
-.600 -.1187 -.3831 -.4037 -.5139 -.8500
-.750 -.1787 -.3021 -.3665 -.5574 -.7079
-.900 -.1655 -.2627 -.1268 -.1417 -.5437

MACH (1) = .165 ALPHA (5) = 14.980 RV/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

R1/R .0000 .3340 .5200 .6630 .8730

X/C
-.900 .1575 .2194 .1553 .1268 -.1569
-.750 .2601 .3086 .2814 .3601 .1782
-.600 .3295 .3915 .2135 .2561 .2283
-.450 .1888 .2816 .1801 .3164 .2223
-.300 .3482 .3801 .2870 .5606 .3133



DATE 08 OCT 76 TABULATED SOURCE DATA - C4578

(R0YH30)

C457-8 816C9F1 J40 W87E18 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (3) = 14.980

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y 0.0000 .3340 .3200 .6630 .8730

Z/C
 -.190 .4611 .4378 .0755 .7236 .5009
 .190 -.3512 -1.4802 -.8155 -1.4604 -2.4795
 .300 -.4508 -.8019 -.7373 -.8304 -2.3785
 .450 -.2965 -.7193 -.8706 -.6543 -2.1294
 .600 -.1804 -.4337 -.5126 -.5125 -1.5408
 .750 -.1879 -.3385 -.5491 -.4488 -1.4094
 .900 -.1919 -.3100 -.2022 -.2319 -.8656

MACH (1) = .165 ALPHA (6) = 19.980 RV/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y 0.0000 .3340 .3200 .6630 .8730

Z/C
 -.900 .1643 .1929 .0363 .0825 -.1628
 -.750 .2929 .3045 .2233 .3587 .1806
 -.600 .5907 .4275 .1197 .2767 .2502
 -.450 .2702 .3671 .1345 .3129 .2799
 -.300 .4464 .4861 .3015 .4710 .3520
 -.150 .5358 .5246 .4711 .8277 .5310
 .150 -.3792 1.9685 -.7908 -1.4636 -1.1406
 .300 -.5185 -.9403 -.8528 -1.2263 -1.1078
 .450 -.4242 -.8148 -.9535 -1.1868 -1.1110
 .600 -.2821 -.6456 -.8774 -1.1213 -1.0702
 .750 -.3217 -.5004 -.8562 -.9276 -.9405
 .900 -.3071 -.4476 -.5194 -.6807 -.8526

REFERENCE DATA

SMALL 4.4120 S4.F11 XMRP = 43.9940 IN. BETA = .000 PIN/P = 1.500

LREF = 19.2300 IN. PMRP = .0000 IN. 1/8 = .039 80FLAP = -10.000

BREF = 37.9350 IN. ZMRP = -.4050 IN. ELEPCA = 15.000

SCALE = .0405

PARAMETRIC DATA

MACH (1) = .165 ALPHA (1) = 10.010 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	1.0420	.8594	1.2512	.6653	-.3496
-.750	.7552	.8439	.9808	.1437	-.0493
-.600	.5623	.7471	.3767	.4248	-.0101
-.450	.4442	.5906	.3266	.3665	-.0921
-.300	.4623	.4576	.3944	.2994	-.0427
-.150	.4777	.5353	.2110	.3791	.3255
.150	-.3289	-.7911	-.7578	-1.2336	-1.1617
.300	-.4488	-.6086	-.6295	-.6320	-1.1023
.450	-.2774	-.5705	-.5235	-.5984	-.9864
.600	-.1323	-.3732	-.4044	-.4291	-.7948
.750	-.1755	-.3333	-.3936	-.2789	-.6493
.900	-.1778	-.1096	-.0509	-.1240	-.4723

MACH (1) = .165 ALPHA (2) = 15.005 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	.9927	.8853	1.1403	1.0248	-.3963
-.750	.7814	.4529	.9338	.1037	.0191
-.600	.5969	.7639	.1921	.1619	.0417
-.450	.4757	.5917	.3519	.2312	.0289
-.300	.4847	.4515	.2634	.2125	.1492
-.150	.5477	.5544	-.2284	.1028	.4106
.150	-.3468	-1.3409	-.8134	-1.3158	-2.6604
.300	-.4825	-.8261	-.7357	-.6874	-1.9406
.450	-.2764	-.6756	-.6386	-.6381	-1.6463
.600	-.1340	-.4064	-.5078	-.5007	-1.1532
.750	-.1753	-.3061	-.5055	-.3882	-1.3140
.900	-.1945	-.2053	-.2166	-.2585	-.8445

DATE 08 OCT 74 TABULATED SOURCE DATA - QAS7B

(RDVW31)

QAS7-B B16C3F1 J40 W07E10 WING TOTAL SURFACE
MACH (1) = .165 ALPHA (3) = 20.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C	.0000	.3210	.5200	.6630	.8730
-.900	.9919	.8804	.9006	.8239	-.3028
-.750	.7931	.8304	.8798	.5548	.0556
-.600	.6450	.7770	.4200	.2349	.1321
-.450	.5274	.6232	.3745	.3170	.1690
-.300	.5501	.5252	.2629	.2606	.2734
-.150	.6151	.6104	-.1709	-.0901	.4730
.150	-.3679	-1.6370	-.8026	-1.6252	-1.2424
.300	-.5382	-.9645	-.8205	-1.4277	-1.1774
.450	-.3843	-.8596	-.9794	-1.2336	-1.1259
.600	-.2574	-.6301	-.8495	-1.1136	-1.0603
.750	-.3128	-.4494	-.7916	-.8547	-.9620
.900	-.2830	-.3183	-.4912	-.7167	-.8228



CA57-E B18C5F1 J40 W07E10 WING TOTAL SURFACE (RDVV32) (12 NOV 73)

REFERENCE DATA

XREF = 4.4120 83.47 XMRP = 43.5940 IN.
 LREF = 19.2300 IN. LMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTV/P = 1.300
 R/P = .039 EOFFLAP = -10.000
 ELEVAN = 15.000

MACH (1) = .165 ALPHA (1) = 9.990 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .6991 .6922 .7370 .6648 -.3319
 -.750 .6865 .7600 .7772 .2292 -.0680
 -.600 .5335 .7072 .3025 .3772 -.0441
 -.450 .4374 .5756 .4834 .2848 -.1201
 -.300 .5121 .4765 .4228 .3376 -.0849
 -.150 .4837 .5397 .2164 .4754 .3208
 .150 -.2949 -.7906 -.7315 -1.2195 -1.1752
 .300 -.4347 -.6067 -.6084 -.6239 -1.1137
 .450 -.2680 -.5578 -.5192 -.5886 -.9803
 .600 -.1243 -.3583 -.3697 -.4128 -.8003
 .750 -.1632 -.1765 -.3723 -.2781 -.6712
 .900 -.1699 -.2019 -.0844 -.1191 -.5015

MACH (1) = .165 ALPHA (2) = 14.970 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .7804 .7137 .6151 .6724 -.4565
 -.750 .7476 .7603 .7643 .3919 -.0327
 -.600 .5761 .7228 .3621 -.0825 -.0071
 -.450 .4704 .5749 .3769 .2372 .0230
 -.300 .5447 .4841 .3094 .2106 .1510
 -.150 .5431 .5627 -.1155 .1045 .4123
 .150 -.3310 -1.3108 -.7750 -1.3683 -2.6579
 .300 -.4833 -.8167 -.7215 -.6781 -2.0458
 .450 -.2782 -.6613 -.6189 -.5908 -1.6822
 .600 -.1412 -.3791 -.4650 -.4960 -1.1419
 .750 -.1792 -.2138 -.4583 -.3577 -1.2426
 .900 -.1950 -.2437 -.2264 -.2236 -.8222

DATE 08 OCT 74 TABULATED SOURCE DATA - CA57B

(RDVV32)

MACH (1) = .165 ALPHA (3) = 19.980 RN/L = 1.200 MACH = .165
CA57-B B16C5F1 J40 W8TE10 WING TOTAL SURFACE

SECTION (1) WING DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.900 .9061 .7177 .5336 .5031 -.3694
-.750 .7739 .7760 .7376 .3936 .0116
-.600 .6202 .7431 .4894 .2203 .1101
-.450 .5.92 .6123 .4462 .2259 .1690
-.300 .5968 .5483 .3215 .2745 .2731
-.150 .6107 .6091 -.1116 -.0194 .4679
.150 -.3644 -1.6529 -.8157 -1.6318 -1.2369
.300 -.5406 -.9837 -.8115 -1.4034 -1.1905
.450 -.3671 -.8704 -.9911 -1.2501 -1.1424
.600 -.2684 -.6437 -.8518 -1.1005 -1.0651
.750 -.3265 -.3846 -.7933 -.8940 -.9713
.900 -.2949 -.3835 -.5117 -.7165 -.8488

REFERENCE DATA PARAMETRIC DATA

BREF = 4.4120 83.1 FT. XMRP = 43.5940 IN. BETA = .000 PTN/P = 1.000
 REF = 16.5000 IN. YMRP = .0000 IN. M.B. = .039 PDFLAP = -18.000
 BREF = 37.9350 IN. ZMRP = -.4050 IN. ELEV. = 15.000
 SCALE = .0405

MACH (1) = .165 ALPHA (1) = 10.005 RN/L = 1.200 MACH = 165

SECTION (1) WING DEPENDENT VARIABLE CP

21/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	.2901	.5178	.4116	.3181	-.4931
-.750	.5288	.5400	.5463	.2684	-.3296
-.600	.5534	.5836	.3337	.2198	-.3385
-.450	.5940	.4308	.3976	.1788	-.1505
-.300	.5115	.4209	.3842	.4081	-.0199
-.150	.4722	.5217	.2073	.5579	.3541
.150	-.2899	-.8004	-.7578	-1.2571	-1.2919
.300	-.4363	-.6148	-.6239	-.6399	-1.1536
.450	-.2642	-.5638	-.5303	-.6207	-1.0360
.600	-.1270	-.3524	-.4066	-.4381	-.8647
.750	-.1693	-.1228	-.3996	-.2988	-.7322
.900	-.1708	-.2824	-.0905	-.1240	-.5745

MACH (1) = .165 ALPHA (2) = 14.990 RN/L = 1.200 MACH = 55

SECTION (1) WING DEPENDENT VARIABLE CP

21/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	.3767	.5486	.3750	.2969	-.4483
-.750	.5468	.5667	.5358	.2628	-.766
-.600	.5446	.5854	.4004	.2735	-.552
-.450	.4523	.4378	.3930	.2866	-.3539
-.300	.5341	.4489	.2667	.2350	.1312
-.150	.5300	.5453	-.0002	.1435	.4017
.150	-.3183	-1.3103	-.7675	-1.5584	-2.6405
.300	-.4833	-.8299	-.6934	-.845	-2.5114
.450	-.2770	-.6797	-.6253	-.711	-2.1357
.600	-.1433	-.3872	-.4792	-.5524	-1.4509
.750	-.1886	-.1453	-.4105	.1531	-1.5726
.900	-.1552	-.3228	-.2561	-.211	-.5

DATE 08 OCT 74 TABULATED SOURCE DATA - CA57B

(RDVW33)

CA57-B B16CSF1 :40 WOTE18 WING TOTAL SURFACE
MACH (3) = .165 ALPHA (3) = 20.015 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

2178	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	.4764	.5761	.3333	.2311	-.3306
-.750	.6266	.6065	.5674	.2812	-.0202
-.600	.5919	.6309	.4606	.3475	.0792
-.450	.5133	.5018	.5219	.4271	.0377
-.300	.5972	.5206	.3815	.4179	.1367
-.150	.5944	.5937	-.0615	.0888	.4539
.150	-.3331	-1.6063	-.7969	-1.5016	-1.2144
.300	-.5431	-.9928	-.8019	-1.4282	-1.1795
.450	-.4019	-.9042	-1.0599	-1.2489	-1.1413
.600	-.2859	-.6627	-.9150	-1.1386	-1.0728
.750	-.3412	-.4904	-.7982	-.9057	-.9817
.900	-.3000	-.3562	-.5260	-.7172	-.8387



CA57-B B16C5F1 J40 WOTE10 WING TOTAL SURFACE

(RDW034) (12 NOV 73)

REFERENCE DATA

REF Z = -.4120 IN. XMRP = 43.5940 IN.
LREF = 19.2300 IN. YMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.500
P/S = .286 BDFLAP = -16.000
ELEVCH = 15.000

MACH (1) = .165 ALPHA (1) = -4.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.0962 -.0436 .1096 .0859 -.0354
-.750 -.1152 .0425 .1786 .2203 .0892
-.600 -.2844 -.0589 -.0208 .0127 .0394
-.450 -.5342 -.3442 -.1474 -.0301 -.0935
-.300 -.4958 -.4902 -.1516 -.0530 -.0741
-.150 .0646 -.2846 -.5874 -.2707 .0969
.150 -.0723 -.1668 -.3060 -.3977 .0368
.300 -.2184 -.2735 -.4125 -.1220 -.5167
.450 -.1362 -.3483 -.4076 -.4154 -.5771
.600 -.0324 -.2897 -.3143 -.3669 -.4037
.750 -.0872 -.1746 -.4185 -.6201 -.2613
.900 -.1778 -.1177 -.0321 -.0091 -.1075

MACH (1) = .165 ALPHA (2) = -.010 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.0854 -.0131 .1088 .1505 -.0425
-.750 -.0662 .1080 .2506 .3150 .1245
-.600 -.1609 .0450 .0579 .0868 .1027
-.450 -.4287 -.2276 -.0473 .0861 .0035
-.300 .3447 .3127 .0761 .1082 .0368
-.150 .1364 .1077 .3629 .0395 .3097
.150 -.1086 -.2765 .4708 .6695 .1982
.300 .2726 .3566 .4911 .2719 .6738
.450 .1789 .4009 .4528 .4461 .6745
.600 .0600 .2988 .3324 .4137 .5157
.750 .1163 .1308 .3812 .5246 .3190
.900 .1711 .1971 .0790 .441 .1656

(RDWQ34)

QAS7-B B16C5F1 J40 WATE10 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (3) = 4.995 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.0532 -.0073 .0397 .2333 -.0602
-.750 .0033 .1597 .2946 .4167 .1570
-.600 -.0466 .1391 .0634 .1780 .1468
-.450 -.2878 -.0721 .1153 .2136 .1034
-.300 -.1674 .1040 .0659 .3047 .1443
-.150 .2253 .0916 .1815 .2416 .4240
.150 -.1935 .4576 .6137 .9675 .5644
.300 .3476 .4939 .5648 .4279 .8352
.450 .2177 .4900 .4850 .5669 .7847
.600 .0838 .3447 .3550 .4576 .6203
.750 .1390 .0935 .3278 .5935 .4080
.900 .1648 .2919 .1290 .0980 .2807

MACH (1) = .165 ALPHA (4) = 9.995 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.0046 .0767 .0539 .3047 -.1064
-.750 .0707 .2289 .3095 .4970 .1800
-.600 .0606 .2290 .1152 .2692 .1817
-.450 .1639 .0568 .1992 .3237 .1861
-.300 .0193 .0576 .2871 .4256 .2154
-.150 .3137 .2347 .0323 .4204 .5038
.150 .2787 .7588 .6828 .1.2391 .1.1065
.300 .4020 .5940 .6243 .6072 .1.0227
.450 .2446 .5325 .5533 .6496 .9447
.600 .1051 .3602 .3874 .5101 .7497
.750 .1589 .2350 .3357 .6415 .6024
.900 .1645 .2897 .1350 .0665 .5367

MACH (1) = .165 ALPHA (5) = 14.975 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0079 .1192 .0883 .2833 -.1180
-.750 .1345 .2873 .3075 .5502 .2074
-.600 .1447 .2966 .1019 .3536 .2483
-.450 .0748 .1244 .2100 .4347 .2398
-.300 .1132 .1934 .2289 .5382 .3210

(ROW34)

CA57-B B16C5F1 J40 W8TE16 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (5) = 14.975

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.150 .3953 .3330 .0230 .5063 .4944
.150 -.3299 -1.2777 -.8392 -1.3944 -1.9341
.300 -.4390 -.7651 -.6800 -.7492 -1.3714
.450 -.2681 -.7032 -.5891 -.6701 -1.2337
.600 -.1237 -.4146 -.4361 -.4633 -1.1403
.750 -.1488 -.2739 -.4316 -.4825 -1.0735
.900 -.2004 -.3304 -.1862 -.1240 -.8808

MACH (1) = .165 ALPHA (6) = 19.990 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0164 .1237 .0889 .1186 -.1571
-.750 .1762 .3015 .3758 .5457 .2297
-.600 .2282 .3316 .1090 .3646 .2929
-.450 .0411 .2707 -.0754 .4582 .3012
-.300 .2363 .3324 .1639 .6233 .3935
-.150 .4830 .4343 .0997 .7101 .5521
.150 -.3454 -1.6189 -.7908 -1.2155 -1.0981
.300 -.5194 -.9704 -.7198 -1.2011 -1.0835
.450 -.3347 -.8583 -.8686 -1.2024 -1.0770
.600 -.1868 -.6030 -.8157 -1.0886 -1.0888
.750 -.2293 -.5094 -.8110 -.8850 -.9936
.900 -.2758 -.4507 -.5007 -.7311 -.9057

REFERENCE DATA

WREF = 4.4120 84. FT.

WREF = 43.5940 IN.

LREF = 18.2300 IN.

LREF = .0000 IN.

BREF = 37.8350 IN.

BREF = -.4050 IN.

SCALE = .0405

PARAMETRIC DATA

BETA = .000

PTN/P = 1.300

M/B = .286

BOFLAP = -18.000

ELEVON = 15.000

MACH (1) = .165

ALPHA (1) = -3.995

AN/L = 1.200

MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/Y/B	.0000	.3340	.5200	.6450	.8750
X/C					
-.900	-.0751	-.0455	.0531	.0805	-.0395
-.750	-.0793	.0095	.1722	.2120	.0890
-.600	-.1925	-.0550	-.0300	.0010	.0593
-.450	-.4564	-.2381	-.0903	-.0151	-.0796
-.300	-.4509	-.4167	-.1015	.0045	-.0614
-.150	.0834	-.2516	-.5122	-.2036	.1310
.150	-.0579	-.1637	-.3196	-.4050	.0205
.300	-.2138	-.2640	-.4087	-.0900	-.5224
.450	-.1264	-.3445	-.4074	-.4081	-.5743
.600	-.0170	-.2786	-.3157	-.3709	-.3927
.750	-.0760	-.1947	-.4018	-.6384	-.2640
.900	-.1726	-.2061	-.0375	-.0118	-.1074

MACH (1) = .165

ALPHA (2) = -.020

AN/L = 1.200

MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/Y/B	.0000	.3340	.5200	.6630	.8750
X/C					
-.900	-.0344	-.0045	.0550	.1333	-.0494
-.750	-.0303	.0828	.2124	.3062	.1259
-.600	-.1209	.0515	.0481	.0778	.1031
-.450	-.3619	-.1632	-.0043	.0946	.0120
-.300	-.3060	-.2500	-.0476	.1551	.0496
-.150	.1408	-.0786	-.2904	.0174	.5251
.150	-.1059	-.2619	-.4827	-.6740	-.1767
.300	-.2758	-.3592	-.4937	-.2418	-.6651
.450	-.1712	-.4134	-.4629	-.4922	-.6737
.600	-.0652	-.3078	-.3437	-.4108	-.4981
.750	-.1116	-.2080	-.3685	-.6025	-.5187
.900	-.1651	-.2276	-.0890	-.0555	-.1702



CASHB-B B16C5F1 J40 W07E18 WING TOTAL SURFACE (RDVW35)

MACH (1) = .165 ALPHA (3) = 4.980 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900	-.0164	.0188	-.0061	.1868	-.0677
-.750	.0395	.1492	.2612	.3924	.1528
-.600	-.0057	.1593	.0647	.1651	.1494
-.450	-.2262	-.0130	.1538	.2248	.1030
-.300	-.1291	-.0545	.1404	.3440	.1401
-.150	.2330	.1241	-.1261	.2979	.4472
.150	-.2009	-.4613	-.6191	-.9628	-.5667
.300	-.3500	-.5232	-.5763	-.4168	-.6390
.450	-.2175	-.5057	-.4857	-.5678	-.7958
.600	-.0883	-.3481	-.3492	-.4488	-.6050
.750	-.1411	-.2224	-.2854	-.6107	-.4226
.900	-.1643	-.2465	-.1779	-.1025	-.2957

MACH (1) = .165 ALPHA (4) = 9.985 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900	-.0089	.0647	.0081	.1643	-.1338
-.750	.0814	.2037	.2508	.4319	.1536
-.600	.0762	.2264	.1037	.2172	.1500
-.450	-.1370	.0742	.2029	.3068	.1605
-.300	-.0021	.0930	.2958	.4474	.2002
-.150	.3040	.2335	.0010	.4464	.4929
.150	-.2705	-.7781	-.7285	-1.2498	-1.1637
.300	-.4258	-.5967	-.6547	-.6107	-1.0559
.450	-.2708	-.5637	-.5575	-.6683	-.9666
.600	-.1229	-.3782	-.4044	-.5245	-.7806
.750	-.1834	-.2600	-.3559	-.6489	-.6543
.900	-.1952	-.2872	-.1630	-.0947	-.5822

MACH (1) = .165 ALPHA (5) = 14.970 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900	.0416	.1151	.0765	.1122	-.1417
-.750	.1538	.2649	.2960	.4712	.2014
-.600	.1760	.3028	.1410	.120	.2479
-.450	-.0246	.1605	.1818	.211	.2401
-.300	.1535	.2122	.2121		.3133

DATE 08 OCT 74 TABULATED SOURCE DATA - CA378

(RDW435)

CA37-8 B16C3F1 J40 W07E10 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (2) = 14.970

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .3200 .6630 .8750

X/C

-.150 .4002 .3482 -.1290 .4782 .5028
 .150 -.3031 -1.2493 -.8130 -1.4030 -2.3641
 .300 -.4657 -.8145 -.7102 -.7524 -1.4244
 .450 -.2732 -.7106 -.6343 -.6745 -1.1637
 .600 -.1216 -.4191 -.4565 -.4718 -1.0245
 .750 -.1368 -.2971 -.4567 -.4067 -.9389
 .900 -.1856 -.3261 -.2018 -.2259 -.7870

MACH (1) = .165 ALPHA (6) = 19.980 RV/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .3200 .6630 .8750

X/C

-.900 .0279 .0876 .0259 -.1308 -.1598
 -.750 .1842 .2619 .3014 .3901 .2228
 -.600 .2462 .3282 .1157 .2674 .2883
 -.450 .0722 .2891 -.0177 .3807 .2987
 -.300 .2765 .3549 .1766 .6100 .3893
 -.150 .4853 .4428 .2191 .7507 .5465
 .150 -.3508 -1.5884 -.7790 -1.2039 -1.0644
 .300 -.5284 -.9586 -.7177 -1.1296 -1.0606
 .450 -.3361 -.8340 -.8596 -1.1591 -1.0573
 .600 -.1950 -.6090 -.8193 -1.0668 -1.0658
 .750 -.2545 -.5299 -.8145 -.9060 -.9765
 .900 -.2858 -.4893 -.4522 -.7452 -.8985

CASE 7B B18C5F1 J40 W07E10 WING TOTAL SURFACE

(RDV036) (12 NOV 75)

REFERENCE DATA

WREF = 4.4120 83.47. WREF = 43.3947 IN.
 WREF = 1.0000 IN. WREF = 1.0000 IN.
 WREF = 37.9550 IN. WREF = -4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.000
 W/B = .286 ROFLAP = -18.000
 ELEVON = 15.000

MACH (1) = .165 ALPHA (1) = -3.995 RW/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8750

X/C

-.900 -.1074 -.0487 -.0091 .0723 -.0562
 -.750 -.0876 -.0127 .0891 .1635 .0811
 -.600 -.1202 -.0322 -.0289 -.0051 .0466
 -.450 -.3512 -.1806 -.0399 -.0020 -.0766
 -.300 -.3685 -.3455 -.0700 .0460 -.0597
 -.150 .0859 -.1898 -.4146 .1426 .1575
 .150 -.0645 -.1695 -.3273 -.4178 .0040
 .300 -.2274 -.2731 -.4094 -.0752 -.5332
 .450 -.1353 -.3544 -.4201 -.4171 -.5888
 .600 -.0253 -.2867 -.3178 -.779 -.4032
 .750 -.0861 -.2225 -.4016 -.6613 -.2737
 .900 -.1836 -.2321 -.0532 -.0248 -.1197

MACH (1) = .165 ALPHA (2) = -.010 RW/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8750

X/C

-.900 -.0824 -.0098 -.0002 .0980 -.0628
 -.750 -.0517 .0504 .1319 .2475 .1121
 -.600 -.0571 .0556 .0313 .0560 .0858
 -.450 -.2717 -.1228 .0282 .0958 .0132
 -.300 -.2380 -.2027 -.0057 .1747 .0469
 -.150 .1417 .0554 -.2043 .0608 .3339
 .150 .1142 .2881 .4912 .6878 .1588
 .300 -.2864 .3723 .5058 .2374 .6775
 .450 .1807 .4225 .3767 .4973 .6824
 .600 -.0663 .3203 .3472 .4159 .4995
 .750 .1223 .2577 .3641 .6160 .3295
 .900 .1803 .1770 .0873 .0642 .1785

CA37-B B16C5F1 J40 W07E18 WING TOTAL SURFACE (RDYV36)

MACH (1) = .165 ALPHA (3) = 5.005 RN/L = 1.200 MACH = .165

SECTION 1 11WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.900	-.0356	.0228	-.0365	.1355	-.0902
-.750	.0193	.1271	.2032	.3397	.1323
-.600	.0427	.1482	.0390	.1500	.1237
-.450	-.1608	-.0036	.1751	.2428	.0835
-.300	-.0745	-.0323	.1690	.3791	.1155
-.150	.2790	.1559	-.0848	.3293	.4581
.150	-.2145	-.4615	-.6478	-.9736	-.5881
.300	-.3585	-.5136	-.5921	-.4150	-.8551
.450	-.2243	-.5098	-.4894	-.3736	-.8075
.600	-.0942	-.3592	-.3593	-.4521	-.6004
.750	-.1422	-.2648	-.2808	-.6175	-.4382
.900	-.1734	-.1720	-.1766	-.1085	-.3292

MACH (1) = .165 ALPHA (4) = 9.980 RN/L = 1.200 MACH = .165

SECTION 1 11WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.900	.0023	.0680	.0078	.1167	-.1331
-.750	.0787	.1944	.1760	.3709	.1526
-.600	.1280	.2348	.0788	.2136	.1444
-.450	-.0585	.0889	.2109	.3304	.1537
-.300	.0615	.1134	.3225	.5026	.2049
-.150	.3094	.2577	.0368	.5205	.5168
.150	-.2992	-.7663	-.7037	-.1242	-.1322
.300	-.4270	-.6032	-.6447	-.5949	-.10590
.450	-.2536	-.3773	-.5635	-.6621	-.9681
.600	-.1154	-.3778	-.4028	-.5150	-.7679
.750	-.1643	-.3014	-.3648	-.6122	-.6566
.900	-.1750	-.2224	-.1330	-.0956	-.5522

MACH (1) = .165 ALPHA (5) = 15.005 RN/L = 1.200 MACH = .165

SECTION 1 11WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.900	.0270	.0851	.0613	.0414	-.1436
-.750	.1334	.2184	.2158	.3402	.1879
-.600	.2041	.2890	.1219	.2328	.2231
-.450	.0222	.1785	.0515	.3207	.2253
-.300	.1924	.2791	.2658	.3696	.3037

(RDYV36)

CA57-B B16C5F1 J40 W07L18 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (5) = 15.005

SECTION (1) WING DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.150 .3981 .3516 .0710 .6733 .4908
.150 -.3778 -1.2528 -.8159 -1.4506 -2.6341
.300 -.5087 -.6129 -.6852 -.7868 -1.6190
.450 -.2917 -.7045 -.6271 -.6841 -1.3115
.600 -.1262 -.4248 -.4500 -.4704 -1.0029
.750 -.1613 -.3292 -.4493 -.4461 -.9572
.900 -.1839 -.2570 -.1202 -.1708 -.8258

MACH (1) = .165 ALPHA (6) = 19.985 RN/L = 1.200 MACH = .10

SECTION (1) WING DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.000 .0130 .0677 -.0424 -.0447 -.1796
-.750 .1435 .1937 .1728 .3311 .1822
-.600 .2555 .3003 .1194 .2450 .2387
-.450 .0959 .2603 -.0697 .3173 .2540
-.300 .3008 .3442 .1470 .5921 .3375
-.150 .4758 .4398 .2388 .7603 .5172
.150 -.3712 -1.4946 -.7278 -.2317 -.9984
.300 -.5807 -.9538 -.6965 -1.0460 -1.0059
.450 -.3784 -.6504 -.6545 -1.0691 -.9956
.600 -.1797 -.6142 -.8222 -.9991 -1.0072
.750 -.2580 -.5654 -.8282 -.9165 -.9340
.900 .2878 -.4264 -.4767 -.7942 -.8525

DATE 08 OCT 74 TABULATED SOURCE DATA - QAS7B

QAS7-B B16C5F1 J40 W07E10 WING TOTAL SURFACE (RDVW37) (12 NOV 73)

REFERENCE DATA

REF = 4.4120 82.FT. XMRP = 43.3940 IN.
 LAEF = 18.2300 IN. FMSP = .0000 IN.
 BRFP = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0403

PARAMETRIC DATA

BETA = .000 PTN/P = 1.500
 M/B = .286 BDFLAP = -10.000
 ELEVON = -15.000

MACH (1) = .165 ALPHA (1) = -3.995 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.2663 -.2648 -.3323 -.3763 -.3718
 -.750 -.3436 -.4715 -.5684 -.6232 -.3969
 -.600 -.4165 -.3856 -.4458 -.4368 -.4438
 -.450 -.7264 -.6188 -.3659 -.3513 -.4761
 -.300 -.6185 -.6983 -.3717 -.3132 -.4077
 -.150 .0069 -.4371 -.8215 -.5025 -.2604
 .150 .0028 -.0553 -.1549 -.1686 -.1198
 .300 .1163 -.1220 -.1966 -.1590 -.2128
 .450 .0172 -.1384 -.1451 -.0729 -.1154
 .600 .0824 .0268 .0384 .0720 .0603
 .750 .0268 .2108 .2832 .3763 .1899
 .900 -.0823 .2215 .2330 .2623 .0926

MACH (1) = .165 ALPHA (2) = .000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.2919 -.2302 -.2627 -.4480 -.3016
 -.750 -.3417 -.5089 -.6283 -.6731 -.3177
 -.600 -.3733 -.3416 -.4408 -.3814 -.3527
 -.450 -.6772 -.5814 -.3121 -.2534 -.3719
 -.300 -.4875 -.5753 -.2313 -.1854 -.2649
 -.150 .0666 -.2770 -.6704 -.3134 .0064
 .150 .0456 -.1620 -.3023 -.3694 -.2974
 .300 .1560 -.2005 -.2851 -.2759 -.3058
 .450 .0487 -.1807 -.1861 -.1268 -.1474
 .600 .0431 .0067 .0204 .0633 .0758
 .750 .0020 .1766 .2611 .3282 .2087
 .900 -.0744 .2282 .2219 .2585 .1324

DATE 08 OCT 74 TUBULATED SOURCE DATA - OA57B (RDWMS7)
 OA57-B B16C5F1 J40 W07E10 WING TOTAL SURFACE
 MACH (1) = .165 ALPHA (3) = 5.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C
 -.900 -.2691 -.1826 -.2193 -.3060 -.2250
 -.750 -.2736 -.4367 -.6757 -.6992 -.2775
 -.600 -.2467 -.2261 -.3978 -.2663 -.2158
 -.450 -.5317 -.3915 -.1714 -.1018 -.2086
 -.300 -.2970 -.3323 -.1875 .0119 -.0834
 -.150 .1609 -.0525 -.4084 .0046 .2561
 .150 -.1177 .3014 -.4545 -.6632 -.6173
 .300 -.2385 .3193 .3585 -.4149 -.4492
 .450 -.1025 .2436 .2112 .1870 .2149
 .600 .0166 .0490 .0243 .0163 .0531
 .750 .0195 .1240 .1090 .2471 .1719
 .900 .0844 .1737 .1271 .2222 .1274

MACH (1) = .165 ALPHA (4) = 9.985 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C
 -.900 -.2370 -.1551 -.2435 -.3242 -.2279
 -.750 -.1960 .3784 .7412 .7016 .2807
 -.600 .1344 .1293 .3705 .1403 .1207
 -.450 .4078 .2220 .0294 .0238 .1006
 -.300 .1244 .1351 .1081 .1796 .0321
 -.150 .2481 .1160 .2426 .2609 .4034
 .150 .2184 .6230 .5337 .8886 .9543
 .300 .2730 .4591 .4231 .5746 .5383
 .450 .1348 .3381 .2823 .2671 .2555
 .600 .0149 .1073 .0898 .0482 .0360
 .750 .0381 .0816 .0537 .2122 .0728
 .900 .0998 .1583 .1307 .2228 .0682

MACH (1) = .165 ALPHA (5) = 15.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C
 -.900 .1913 .1344 .2594 .3194 .2702
 -.750 .1217 .3200 .7895 .6957 .3497
 -.600 .0243 .0335 .3493 .0214 .0665
 -.450 .2766 .0938 .0607 .1557 .0161
 -.300 .0235 .0368 .2582 .3153 .1298

DATE 08 OCT 74 TABULATED SOURCE DATA - GA37B

(RDW437)

GA37-B B16C3F1 J40 WATE18 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (5) = 19.000

SECTION (1) WING DEPENDENT VARIABLE CP

2r/b .0000 .3340 .5200 .6630 .8730

X/C

-.150 .3425 .2355 -.0996 .4327 .4842
 .150 -.2471 -1.0239 -.6444 -1.5650 -1.2143
 .300 -.3316 -.6028 -.4817 -.6700 -.6169
 .450 -.1567 -.4579 -.3320 -.3166 -.4546
 .600 -.0212 -.1607 -.1326 -.1141 -.6257
 .750 -.0359 .0593 .0593 .2819 -.3014
 .900 -.1144 .1903 .1146 .2225 -.0948

MACH (1) = .165 ALPHA (6) = 19.995 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

2r/p .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.1762 -.1628 -.3232 -.4918 -.4485
 -.750 -.0641 -.3048 -.7927 -.7622 -.6983
 -.600 .0708 .0387 -.2813 .0345 -.0183
 -.450 -.1780 .0315 -.1400 .2759 .0501
 -.300 .1594 .1533 .1118 .4565 .1973
 -.150 .4362 .3424 -.1759 .5088 .5369
 .150 -.2770 -1.4100 -.6834 -1.0722 -.9373
 .300 -.3657 -.7603 -.5190 -1.1137 -.8866
 .450 -.2059 -.5655 -.5259 -.9018 -.8526
 .600 -.0776 -.2902 -.3741 -.6577 -.8149
 .750 -.1262 -.0700 -.1352 -.1345 -.6358
 .900 -.1790 .0648 -.0440 -.1146 -.5692

DATE 08 OCT 74 TABULATED SOURCE DATA - CAS7B (ADVNS8) (12 NOV 73)

CAS7-B B16C5F1 J40 W07E18 WING TOTAL SURFACE

PARAMETRIC DATA

BETA = .000 PTN/P = 1.300
M/B = .266 BDFLAP = -18.000
ELEVON = -15.000

REFERENCE DATA

SREF = 4.4120 82.77. XMRP = 43.5940 IN.
LREF = 19.2300 IN. YMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

MACH (1) = .165 ALPHA (1) = -3.990 RN/L = 1.200 MACH = .165

DEPENDENT VARIABLE CP

SECTION (1) WING

Z/RB .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.2683 -.2693 -.3251 -.3757 -.3817
-.750 -.3493 -.4809 -.5750 -.5942 -.4052
-.600 -.4349 -.3886 -.4398 -.4206 -.4287
-.450 -.7178 -.6211 -.3703 -.3581 -.4845
-.300 -.6147 -.7035 -.3992 -.3105 -.4117
-.150 -.0051 -.4401 -.7985 -.4796 -.2427
150 -.0175 -.0645 -.1520 -.1659 -.1180
300 -.1165 -.1304 -.2112 -.1681 -.2207
450 -.0218 -.1425 -.1523 -.0824 -.1255
600 .0666 .0160 .0365 .0746 .0636
750 .0204 .2014 .2730 .3699 .1829
900 -.0904 .2169 .2199 .2517 .0842

MACH (1) = .165 ALPHA (2) = .025 RN/L = 1.200 MACH = .165

DEPENDENT VARIABLE CP

SECTION (1) WING

Z/RB .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.2551 -.2262 -.2578 -.4336 -.2925
-.750 -.2937 -.4425 -.5424 -.6131 -.3558
-.600 -.3338 -.2971 -.3631 -.3263 -.3154
-.450 -.5948 -.4846 -.2589 -.2199 -.3359
-.300 -.4502 -.5091 -.2845 -.1408 -.2360
-.150 .0718 -.2349 -.3793 -.2205 .0615
150 -.0539 -.1742 -.3161 -.3855 -.3227
300 -.1709 -.2218 -.3053 -.2921 -.3143
450 -.0527 -.1917 -.2015 -.1380 -.1527
600 .0298 -.0063 .0109 .0361 .0690
750 -.0111 .1512 .2346 .3133 .2065
900 -.0777 .2145 .2020 .2433 .1358

MACH (1) = .165 ALPHA (5) = 5.005 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/r/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	-.2428	-.1794	-.2053	-.3052	-.2194
-.750	-.2243	-.3747	-.5620	-.6485	-.2985
-.600	-.2237	-.1871	-.2982	-.2150	-.1931
-.450	-.4635	-.3467	-.1133	-.0718	-.2014
-.300	-.2621	-.2700	-.1237	.0627	-.0698
-.150	.1563	-.0271	-.3251	.0817	.2792
.150	-.1394	.3195	-.4494	-.6662	-.6429
.300	-.2484	-.3320	-.3369	-.4206	-.4641
.450	-.1137	-.2661	-.2229	-.2008	-.2246
.600	-.0033	-.0656	-.0284	.0088	.0434
.750	-.0337	.1108	.0931	.2378	.1639
.900	-.0987	.1527	.1057	.2073	.1215

MACH (1) = .165 ALPHA (4) = 10.010 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/r/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	-.2091	-.1524	-.2228	-.2946	-.2294
-.750	-.1595	-.3239	-.6315	-.6506	-.3173
-.600	-.1037	-.0980	-.2852	-.1020	-.1085
-.450	-.3303	-.1974	.0061	.0460	-.0955
-.300	-.0954	-.0971	.1965	.2271	.0466
-.150	.2503	.1331	-.1555	.3164	.4135
.150	-.2096	-.6449	-.5431	-.9168	-.9800
.300	-.2895	-.4674	-.4377	-.5473	-.5632
.450	-.1426	-.3580	-.3051	-.2868	-.2600
.600	-.0272	-.1197	-.0969	-.0696	-.0622
.750	-.0515	.0689	.0323	.1962	.0352
.900	-.1197	.1392	.1170	.2096	.0523

MACH (1) = .165 ALPHA (5) = 14.985 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/r/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	-.1583	-.1138	-.2185	-.3082	-.2848
-.750	-.0842	-.2613	-.6317	-.6345	-.3642
-.600	.0044	.0013	-.2289	.0013	-.0529
-.450	-.1926	-.0647	.0438	.1766	.0102
-.300	.0633	.0686	.3142	.3683	.1258

DATE 08 OCT 74 TABULATED SOURCE DATA - CA578

(RDW38)

CA57-B 8165F1 J40 W07E18 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (5) = 14.985

DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.150 .3417 .2537 -.0361 .4743 .4952
 .150 -.2429 -1.0490 -.6532 -1.0729 -1.2191
 .300 -.3435 -.6114 -.5086 -.6422 -.6414
 .450 -.1573 -.4506 -.3293 -.3540 -.5211
 .600 .0 .5 -.1655 -.1338 -.1147 -.7055
 .750 -.0458 .0501 .0554 .2657 -.3166
 .900 -.1315 .1822 .1029 .2056 -.1183

MACH (1) = .165 ALPHA (6) = 19.990 RN/L = 1.200 MACH = .155

SECTION (1) WING DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.1281 -.1582 -.2738 -.4531 -.4394
 -.750 -.0198 -.2420 -.6282 -.6834 -.6886
 -.600 .1042 .0630 -.1570 .0471 .0378
 -.450 -.0809 .0687 -.1910 .2588 .0555
 -.300 .2008 .1909 .1582 .5033 .2063
 -.150 .4396 .3644 -.1114 .6084 .5432
 .150 .2695 -1.4081 -.6697 -1.0254 -.9421
 .300 -.3913 -.7666 -.5441 -1.1438 -.9106
 .450 -.2015 -.5732 -.5564 -.9101 -.8738
 .600 -.0694 -.3139 -.4076 -.7110 -.8098
 .750 .1364 -.0857 -.1771 -.1824 -.6394
 .900 -.1855 .0 .0697 -.1490 -.5617

REFERENCE DATA

WREF = 4.4120 SQ.FT.

WARP = 43.5940 IN.

LREF = 18.2300 IN.

LWARP = .0000 IN.

BREF = 37.9350 IN.

BWARP = -.4050 IN.

SCALE = .0405

PARAMETRIC DATA

BETA = .000

PTN/P = 1.000

M/B = .286

BDFLAP = -18.000

ELEVON = -15.000

MACH (1) = .165

ALPHA (1) = -3.990

RN/L = 1.200

MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/E	.0000	.3340	.5200	.6630	.8730
-----	-------	-------	-------	-------	-------

X/C

-.900	-.2868	-.2763	-.2680	-.2684	-.3483
-.750	-.3114	-.3369	-.4244	-.5157	-.3826
-.600	-.3204	-.3205	-.3616	-.3563	-.4010
-.450	-.5885	-.5042	-.2779	-.3053	-.4495
-.300	-.5168	-.6084	-.3188	-.2121	-.3792
-.150	.0150	-.3747	-.6972	-.4196	-.1868
.150	-.0103	-.0671	-.1715	-.1887	-.1397
.300	-.1220	-.1330	-.2176	-.1855	-.2334
.450	-.0167	-.1363	-.1445	-.0841	-.1267
.600	.0660	.0128	.0260	.0639	.0588
.750	.0150	.1976	.2693	.3653	.1833
.900	-.5025	.2118	.2230	.2510	.0957

MACH (1) = .165

ALPHA (2) = .000

RN/L = 1.200

MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/E	.0000	.3340	.5200	.6630	.8730
-----	-------	-------	-------	-------	-------

X/C

-.900	-.2457	-.2282	-.2193	-.3137	-.2812
-.750	-.2711	-.3456	-.4437	-.5485	-.3392
-.600	-.2484	-.2331	-.2991	-.2795	-.2963
-.450	-.4989	-.4145	-.2050	-.1981	-.3286
-.300	-.3792	-.4418	-.2301	-.0617	-.2270
-.150	.0789	-.1920	-.5078	-.1722	.0887
.150	-.0548	-.1781	-.3278	-.3959	-.3422
.300	-.1784	-.2221	-.3122	-.3083	-.3308
.450	-.0553	-.1958	-.2083	-.1500	-.1613
.600	.0255	-.0110	.0035	.0491	.0622
.750	-.0170	.1487	.2237	.3034	.1936
.900	-.0885	.2078	.1961	.2285	.1363

(RDWV39)

CA37-B 816CSF1 J40 W07E18 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (3) = 5.000 RN/L = 1.200 MACH = .165

DEPENDENT VARIABLE CP

SECTION (1) WING

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.2231 -.1633 -.2088 -.2914 -.2179
-.750 -.2129 -.3275 -.5322 -.6039 -.3028
-.600 -.1516 -.1657 -.2386 -.1630 -.1983
-.450 -.3881 -.3026 -.0678 -.0337 -.2140
-.300 -.2114 -.2438 -.1023 .1649 -.0592
-.150 .1646 -.0055 -.2957 .1214 .2961
.150 -.1325 -.3210 -.4717 -.6805 -.6633
.300 -.2533 -.3401 -.3744 -.4363 -.4720
.450 -.1645 -.2603 -.2235 -.2069 -.2373
.600 .0021 -.0645 -.0317 .0014 .0351
.750 -.0432 .1025 .0825 .2290 .1603
.900 -.1080 .1480 .1051 .2045 .1167

MACH (1) = .165 ALPHA (4) = 10.015 RN/L = 1.200 MACH = .165

DEPENDENT VARIABLE CP

SECTION (1) WING

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.1859 -.1415 -.2443 -.2407 -.2225
-.750 -.1533 -.2773 -.5725 -.5244 -.3165
-.600 -.0604 -.0793 -.2294 -.0354 -.1137
-.450 -.2696 -.1766 .0313 .0992 -.1055
-.300 -.0582 -.0807 .2223 .3436 .0498
-.150 .2484 .1497 .1505 .3571 .4358
.150 -.2020 -.6316 .5482 .6987 .1.0081
.300 .3001 .4465 .4377 .5427 .5514
.450 -.1345 .3466 .3091 .2893 .2586
.600 .0257 .1133 .0996 .0745 .0828
.750 .0601 .0699 .0515 .2135 .0307
.900 .1206 .1376 .1202 .2219 .0447

MACH (1) = .165 ALPHA (5) = 15.000 RN/L = 1.200 MACH = .165

DEPENDENT VARIABLE CP

SECTION (1) WING

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.1397 -.1137 -.2360 -.2193 -.2856
-.750 -.0732 -.2188 .9811 .4506 .3208
-.600 .0364 .0108 .1915 .0748 .0113
-.450 .1516 .0567 .0028 .1976 .0025
-.300 .0931 .0766 .3052 .4721 .1357

(RDYV39)

QAS7-B B16CSF1 J40 WOTE18 WING TOTAL SURFACE

MACH (1) = .185 ALPHA (5) = 15.000

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C

-.150 .3384 .2588 -.0127 .5431 .5113
.150 -.2421 -1.0683 -.6362 -1.0783 -1.2263
.300 -.3471 -.6094 -.4912 -.6476 -.6612
.450 -.1581 -.4889 -.3440 -.3631 -.5561
.600 -.0305 -.1750 -.1349 -.1182 -.6788
.750 -.0502 .0436 .0477 .2619 -.3031
.900 -.1347 .1683 .1002 .2021 -.1262

MACH (1) = .185 ALPHA (6) = 19.995 RM/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.1107 -.1558 -.2380 -.3441 -.4615
-.750 -.0204 -.2103 -.4433 -.4684 -.6675
-.600 .1146 .0608 -.0329 .0921 .0485
-.450 -.0507 .0536 -.2932 .1990 .0367
-.300 .2210 .1913 .2561 .5570 .1978
-.150 .4270 .3593 .0326 .6771 .5298
.150 -.2822 -1.3916 -.6396 -.9685 -.9297
.300 -.4002 -.7679 -.5028 -1.0561 -.8862
.450 -.2073 -.5691 -.5583 -.9772 -.8832
.600 -.0944 -.3599 -.4324 -.7942 -.8173
.750 -.1690 -.1030 -.1808 -.2736 -.6797
.900 -.1966 .0475 -.0829 -.1760 -.5962

DATE 08 OCT 74 TABULATED SOURCE DATA - CASHB

CASHB-B B18C5F1 J40 W07E18 WING TOTAL SURFACE (RDVW40) (12 NOV 73)

REFERENCE DATA

BREF = 4.4120 82 FT. XMRP = 43.5940 IN.
LREF = 18.2300 IN. LMRP = .0000 IN.
BREF = 37.8350 IN. ZMRP = -.4050 IN.
SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.500
M/B = .039 BDFLAP = -16.000
ELEVON = -15.000

MACH (1) = .165 ALPHA (1) = 9.995 AN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6650 .8750

X/C
-.900 1.8162 -.3435 -.2721 -.4036 -.3981
-.750 .2755 -.2964 -.6722 -.7778 -.4419
-.600 .3254 .2724 -.0079 -.2455 -.3177
-.450 .1053 .2449 .1922 -.1092 -.2726
-.300 .3529 .3179 .2824 .2471 -.1177
-.150 .4334 .4149 .0070 .2618 .3271
.150 -.2622 -.6652 -.6781 -.9738 -1.0785
.300 -.3435 -.4771 -.5000 -.5987 -.6110
.450 -.1913 -.3955 -.3436 -.3236 -.3061
.600 -.0634 -.1828 -.1884 -.1381 -.1480
.750 -.1087 .0141 .0223 .1982 -.0539
.900 -.2101 .0958 .0317 .1298 -.0390

MACH (1) = .165 ALPHA (2) = 15.000 AN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6650 .8750

X/C
-.900 .9840 -.1157 -.1435 -.1920 -.4443
-.750 .4343 .0096 -.4090 -.6036 -.4270
-.600 .4011 .3847 -.0033 -.0934 -.1923
-.450 .2068 .3131 .2170 .0025 -.1764
-.300 .3925 .4000 .3444 .3315 -.0228
-.150 .4963 .4728 .0668 .4103 .4250
.150 -.2834 -1.1726 -.6742 -1.1201 -1.2759
.300 -.3735 -.6363 -.5415 -.6566 -.8359
.450 -.2017 -.4753 -.3621 -.3329 -.5860
.600 -.0656 -.2162 -.2221 -.2779 -.4105
.750 -.0949 -.0151 -.0246 .4775 .2152
.900 -.2093 .1164 .0504 .1775 .4775

(80MM40)

CAS7-B 016C3F1 J40 W87E18 WING TOTAL SURFACE
MACH (1) = .185 ALPHA (3) = 19.990 RW/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE C_D

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.900	1.0138	-.0100	-.1832	-.2708	-.3727
-.750	.5536	.1840	-.2763	-.3472	-.8408
-.600	.4722	.4754	.1009	-.0219	-.0801
-.450	.2987	.3867	.2443	.1716	-.0045
-.300	.4530	.4738	.2932	.4561	.1580
-.150	.5636	.5319	-.1897	.3690	.4560
.150	-.3258	-1.5480	-.6907	-1.2429	-1.1365
.300	-.4467	-.7712	-.6322	-.9746	-1.0517
.450	-.2907	-.6630	-.6934	-.8649	-1.0023
.600	-.1727	-.4450	-.5973	-.6526	-.9092
.750	-.2233	-.1679	-.3110	-.3205	-.6700
.900	-.2676	.0151	-.1766	-.2474	-.5635



REFERENCE DATA

BREF = 4.4120 IN. ZWIP = 43.5940 IN.

REF = 10.000 IN. ZWIP = 0.000 IN.

BREF = 37.9350 IN. ZWIP = -.4030 IN.

SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.300

M/B = .039 BOFLAP = -18.000

ELEVON = -13.000

MACH (1) = .165 ALPHA (1) = 10.000 RN/L = 1.200 MACH = .165

SECTION (1) WING		DEPENDENT VARIABLE CP	
Z/B			
X/C			
-.90C	.3917	-.3067	-.2503
-.75C	.1600	-.2855	-.6156
-.60C	.3022	.2211	-.0929
-.45C	.1137	.2251	.1750
-.30C	.3845	.3156	.3161
-.15C	.4391	.4202	.0433
.15C	-.2456	-.6547	-.6540
.30C	-.3436	-.4793	-.4902
.45C	-.1172	-.3914	-.3406
.60C	-.0599	-.1797	-.1800
.75C	-.1079	.0099	.0173
.90C	-.1997	.0932	.0537

SECTION (1)		ALPHA (2) = 14.995	
Z/B			
DEPENDENT VARIABLE CP			
X/C			
-.90C	.3277	-.1502	-.1643
-.75C	.3899	-.1397	-.3792
-.60C	.3983	.3579	-.0224
-.45C	.2398	.5083	.1937
-.30C	.4391	.4100	.3217
-.15C	.5025	.4834	.1001
.15C	-.2798	-.1186	-.6639
.30C	-.3894	-.6617	-.5224
.45C	-.1970	-.4866	-.3825
.60C	-.0691	-.2229	-.2258
.75C	-.1163	-.0294	-.0082
.90C	-.2154	.1108	.0345

(RDVW411)

CAS7-B B10CSF1 J40 W4TE10 WING TOTAL SURFACE
MACH (1) = .105 ALPHA (3) = 20.000 RW/L = 1.200 MACH = .105

SECTION (1) WING DEPENDENT VARIABLE CP

R1/B .0000 .3340 .5200 .6630 .8730

X/C

-.900	.7083	-.0845	-.2045	-.2963	-.3451
-.750	.5030	.1026	-.2969	-.5210	-.8945
-.600	.4747	.4487	.1193	-.0250	-.0417
-.450	.3285	.3796	.2867	.0812	.0315
-.300	.3115	.4799	.3318	.3467	.1808
-.150	.5634	.5408	.1505	.3367	.4616
.150	-.2250	-1.5370	-.6823	-1.5148	-1.1300
.300	-.4625	-.7883	-.6460	-1.0898	-1.0452
.450	-.5036	-.6776	-.7218	-.9212	-.9990
.600	-.1844	-.4435	-.5918	-.7212	-.9367
.750	-.2325	-.1884	-.3316	-.3549	-.7017
.900	-.2731	.0047	-.1909	-.2494	-.6310



REFERENCE DATA

SAEF = 4.4120 82.FT.

LREF = 18.2300 IN.

PAEF = 37.9350 IN.

SCALE = .0405

WARP = 43.5940 IN.

FWARP = .0000 IN.

FWARP = -.4050 IN.

BETA = .000

H/B = .039

ELEVON = -15.000

PTN/P = 1.000

BDFLAF = -18.000

PARAMETRIC DATA

MACH (1) = .165

ALPHA (1) = 10.000

RN/L = 1.200

MACH = .165

SECTION (1) WING

21/B

.0000

.3340

.5200

.6630

.8730

DEPENDENT VARIABLE CP

X/C

-.900

-.750

-.600

-.450

-.300

-.150

.150

.300

.450

.600

.750

.900

-.0598

.0017

.2368

.0751

.3765

.4149

-.2464

-.3495

-.1811

-.0596

-.1043

-.1990

-.2902

-.3535

.1374

.1245

.2606

.3939

-.6508

-.4898

.4017

-.1755

.0081

.0901

-.2375

-.5434

-.1796

.1137

.3146

.0142

-.6390

-.4935

-.3500

-.1760

.0225

.0538

-.4838

-.8288

-.2449

-.0918

.3590

.4157

-.9688

-.6061

-.3312

-.1390

.2136

.1286

-.3096

-.4859

-.2324

-.2049

-.0935

.3841

-.1106

-.5975

-.3131

-.1879

-.0976

-.0549

MACH (1) = .165

ALPHA (2) = 14.995

RN/L = 1.200

MACH = .165

SECTION (1) WING

21/B

.0000

.3340

.5200

.6630

.8730

DEPENDENT VARIABLE CP

X/C

-.900

-.750

-.600

-.450

-.300

-.150

.150

.300

.450

.600

.750

.900

.2183

.2431

.3701

.2419

.4436

.4825

-.2944

-.4090

-.2098

-.0832

-.1306

-.2087

-.1832

-.1304

.2886

.2592

.3811

.4739

-.11884

-.6979

-.5244

-.2532

-.0524

.1005

-.1914

-.3553

-.0409

.1211

.3109

.1031

-.6749

-.5287

-.4244

-.2636

.0041

.0076

-.2762

-.5193

-.0203

.1008

.5153

.6537

-.12010

-.7544

-.4967

-.2636

.0041

.0266

-.4493

-.5793

-.1042

-.0689

.0606

.4495

-.13244

-.12319

-.12007

-.10842

-.6827

-.4105

DATE 08 OCT 74 TABULATED SOURCE DATA - CA57B

(RDVW42)

CA57-B B16C5F1 J40 W0TE10 WING TOTAL SURFACE
MACH (1) = .165 ALPHA (3) = 20.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

27/B .0000 .3340 .5200 .6630 .8730

X/C

-.900	.3801	-.1495	-.2124	-.3536	-.5289
-.750	.3803	-.0190	-.2779	-.4900	-.7694
-.600	.4607	.3536	.0749	.0376	.0072
-.450	.3395	.3254	.2472	.1476	.0412
-.300	.5196	.4643	.2954	.1435	.2022
-.150	.5566	.5406	-.0776	.5581	.4460
.150	-.3289	-1.5205	-.6914	-1.5135	-1.0917
.300	-.4721	-.6274	-.6610	-1.2054	-1.0255
.450	-.2966	-.6881	-.7479	-1.0339	-.9832
.600	-.1709	-.4466	-.6299	-.6613	-.9421
.750	-.2319	-.1816	-.3327	-.4069	-.7321
.900	-.2653	.0036	-.2072	-.3227	-.6711



QAS7-B B16C5F1 J40 W07E16 WING TOTAL SURFACE

(RDVW43) (12 NOV 73)

REFERENCE DATA

QREF = 4.4120 84.FT. MMRP = 43.5940 IN.
LREF = 19.2300 IN. MMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.500
H/B = .125 BOFLAP = -18.000
ELEVON = -15.000

MACH (1) = .165 ALPHA (1) = -3.990 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Zr/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.3276 -.5288 -.4924 -.6083 -.5838
-.750 -.7374 -.6392 -.8018 -.9361 -.5907
-.600 -.9878 -.8177 -.8167 -.7179 -.6331
-.450 -1.3828 -1.1432 -.7507 -.6471 -.7184
-.300 -1.2518 -1.3485 -.6979 -.4443 -.6160
-.150 -.0696 -.8537 -1.2741 -.8238 -.4841
.150 -.0502 -1.1104 -.2035 -.2134 -.1547
.300 -.1580 -1.1732 -.2597 -.2214 -.2796
.450 -.0599 -1.1957 -.2065 -.1327 -.1727
.600 .0285 -.0357 -.0175 .0237 .0119
.750 -.0227 .1607 .2394 .3362 .1255
.900 -.1689 .1524 .1581 .1981 -.0016

MACH (1) = .165 ALPHA (2) = .010 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Zr/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.3516 -.4072 -.4022 -.5100 -.4087
-.750 -.6146 -.5773 -.7825 -.8422 -.4475
-.600 -.6076 -.5516 -.6088 -.5084 -.4456
-.450 -.9418 -.7807 -.4560 -.3786 -.4895
-.300 -.6098 -.7534 -.3814 -.1112 -.3560
-.150 .0684 -.3506 -.8264 -.3677 -.0509
.150 -.0790 -.2177 -.3618 -.4337 -.3496
.300 -.1924 -.2483 -.3416 -.3376 -.3623
.450 -.0802 -.2276 -.2363 -.1775 -.1886
.600 .0031 -.0452 -.0251 .0215 .0341
.750 -.0360 .1264 .2041 .2853 .1693
.900 -.1319 .1754 .1675 .2035 .0835

DATE 08 OCT 74 TABULATED SOURCE DATA - 0A37B

(ROW43)

MACH (1) = .165 ALPHA (3) = 4.990 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	-.2826	-.2937	-.3149	-.4262	-.2809
-.750	-.4235	-.4717	-.7690	-.7822	-.3367
-.600	-.3062	-.2604	-.4343	-.3099	-.2719
-.450	-.5837	-.4439	-.1922	-.1401	-.2654
-.300	-.2419	-.3123	-.1831	.1794	-.1144
-.150	.1995	-.0065	-.4124	.0346	.2475
.150	-.1546	-.3802	-.4702	-.7023	-.6713
.300	-.2634	-.3903	-.3805	-.4414	-.4862
.450	-.1168	-.3137	-.2424	-.2230	-.2484
.600	-.0092	-.0861	-.0544	-.0182	.0231
.750	-.0561	.0846	.0546	.2245	.1572
.900	-.1168	.1459	.0729	.1780	.1021

MACH (1) = .165 ALPHA (4) = 9.990 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	-.1800	-.2234	-.2615	-.3806	-.3312
-.750	-.2326	-.3611	-.7121	-.7177	-.3292
-.600	-.1026	-.0994	-.3628	-.1561	-.1617
-.450	-.3535	-.1984	-.0324	.0174	-.1369
-.300	-.0285	-.0572	.1903	.3361	.0136
-.150	.2983	.1804	.1724	.2956	.3955
.150	-.2318	-.6258	-.5385	-.9235	-1.0095
.300	-.3064	-.4492	-.4598	-.5549	-.5669
.450	-.1436	-.3701	-.3144	-.2988	-.2678
.600	-.0343	-.1288	-.1168	-.0874	-.0861
.750	-.0631	.0559	.0400	.2205	.0219
.900	-.1362	.1306	.1010	.2073	.0367

MACH (1) = .165 ALPHA (5) = 14.980 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	-.0483	-.1868	-.2458	-.3709	-.3210
-.750	-.0775	-.2618	-.6171	-.7518	-.4044
-.600	.0512	.0344	-.2336	-.0284	-.0694
-.450	-.1815	-.0328	.0334	.1686	-.0182
-.300	-.1298	.1275	.3197	.4667	.1004



(80VM43)

CA37-B B18C5F1 J40 W87E18 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (5) = 14.980

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .3200 .6630 .8730

X/C

-.150	.3078	.3027	-.0352	.4480	.4820
.150	-.2745	-1.1000	-.6861	-1.0908	-1.2375
.300	-.3611	-.6344	-.5317	-.6568	-.7009
.450	-.1770	-.4708	-.3599	-.3525	-.5752
.600	-.0433	-.1833	-.1621	-.1152	-.7230
.750	-.0635	.0228	.0390	.2072	-.3086
.900	-.1925	.1631	.0751	.5427	-.1249

MACH (1) = .165 ALPHA (6) = 20.005 AN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .3200 .6630 .8730

X/C

-.900	.0584	-.1720	-.3000	-.4958	-.4714
-.750	.0422	-.1787	-.6653	-.7794	-.6832
-.600	.1780	.1518	-.1954	.0465	.0388
-.450	-.0433	.1298	-.0013	.3103	.0595
-.300	.2653	.2544	.1603	.6054	.2085
-.150	.4856	.4139	-.2162	.4807	.5219
.150	-.3220	-1.4626	-.6743	-1.1357	-1.0515
.300	-.4196	-.7789	-.5514	-1.1538	-.9763
.450	-.2309	-.5859	-.5799	-.8821	-.9233
.600	-.1125	-.3513	-.4570	-.6763	-.8725
.750	-.1504	-.1117	-.2161	-.2031	-.6694
.900	-.2043	.0468	-.1047	-.1627	-.5961

CM37-B B16C5F1 J40 W87E18 WING TOTAL SURFACE

(RDVW44) (12 NOV 73)

REFERENCE DATA

BREF = 4.4120 33.FT. XMRP = 43.5940 IN.
LREF = 19.2300 IN. LMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTH/P = 1.300
H/B = .125 DOFLAP = -18.000
ELEVON = -15.000

MACH (1) = .165 ALPHA (1) = -4.005 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.2733 -.4406 -.4665 -.5177 -.5100
-.750 -.5806 -.5244 -.6667 -.7316 -.5208
-.600 -.7648 -.6290 -.6397 -.6034 -.5562
-.450 -1.0984 -.9357 -.5875 -.5360 -.6257
-.300 -1.0362 -1.1194 -.5503 -.3042 -.5389
-.150 -.0270 -.6864 -1.0720 -.6556 -.3715
.150 -.0386 -.1069 -.2047 -.2243 -.1655
.300 -.1555 -.1759 -.2573 -.2105 -.2722
.450 -.0500 -.1849 -.2002 -.1253 -.1611
.600 .0372 .0248 -.0062 .0305 .0247
.750 -.0150 .1612 .2420 .3406 .1442
.900 -.1480 .1724 .1808 .2039 .0283

MACH (1) = .165 ALPHA (2) = -.010 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.2655 -.3463 -.3397 -.4627 -.3804
-.750 -.5052 -.4837 -.6538 -.7525 -.4047
-.600 -.4729 -.4319 -.5113 -.4342 -.4043
-.450 -.7674 -.6501 -.3665 -.3115 -.4194
-.300 -.5263 -.6054 -.3446 -.0463 -.3066
-.150 .0915 -.2733 -.6916 -.2690 .0176
.150 -.0761 -.2179 -.3735 -.4466 -.3752
.300 -.2034 -.2538 -.3370 -.3247 -.3627
.450 -.0777 -.2259 -.2337 -.1795 -.1924
.600 .0078 -.0422 -.0280 .0176 .0337
.750 -.0363 .1206 .1943 .2832 .1753
.900 -.1240 .1829 .1637 .2009 .0910

DATE 08 OCT 74 TABULATED SOURCE DATA - CA57B

(RDVW44)

CA57-B B16C3F1 J40 W0TE18 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (3) = 4.975 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.2042 -.2433 -.2886 -.3677 -.2667
 -.750 -.3423 -.4107 -.5843 -.7580 -.3326
 -.600 -.2333 -.2186 -.3646 -.2573 -.2719
 -.450 -.4636 -.3610 -.1156 -.0933 -.2541
 -.300 -.1836 -.2378 -.1003 .2271 -.0977
 -.150 .2081 .0338 -.3332 .1064 .2794
 .150 -.1696 -.4130 -.4898 -.7106 -.7020
 .300 -.2763 -.4190 -.3933 -.4486 -.5028
 .450 -.1260 -.3298 -.2423 -.2300 -.2340
 .600 -.0193 -.0973 -.0703 -.0307 .0135
 .750 -.0664 .0705 .0376 .2116 .1448
 .900 -.1312 .1392 .0647 .1731 .0961

MACH (1) = .165 ALPHA (4) = 9.990 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.0935 -.2066 -.2647 -.3495 -.2682
 -.750 -.1800 -.3166 -.6286 -.7308 -.3296
 -.600 -.0436 -.0595 -.3015 -.1267 -.1604
 -.450 -.2523 -.1468 .0013 .0490 -.1329
 -.300 .0217 -.0021 .2406 .3736 .0086
 -.150 .3071 .3071 .1211 .3428 .4109
 .150 -.2398 -.6392 -.5940 -.9675 -1.0619
 .300 -.3263 -.4576 -.4739 -.5835 -.5818
 .450 -.1612 -.3776 -.3301 -.3236 -.2809
 .600 -.0336 -.1440 -.1414 -.1197 -.1276
 .750 -.0731 .0444 .0313 .2096 -.0131
 .900 -.1330 .1200 .0857 .1904 .0120

MACH (1) = .165 ALPHA (5) = 14.985 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0341 -.1614 -.2189 -.7750 -.3215
 -.750 -.0267 -.2234 -.4990 -.5612 -.3505
 -.600 .1054 .0726 -.1430 -.1111 -.0033
 -.450 -.0908 .0094 .0000 .0000 .0000
 -.300 .0000 .0000 .0000 .0000 .0000

(RDYV44)

CA37-B B18C5F1 J40 W07E10 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (5) = 14.985

SECTION (1) WING DEPENDENT VARIABLE CP

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.150 .4069 .3326 .0176 .4947 .5015
.150 -.2781 -1.0813 -.6774 -1.1054 -1.2650
.300 -.3156 -.6320 -.5191 -.6730 -.7600
.450 -.1668 -.4839 -.3554 -.3489 -.6243
.600 -.0356 -.1805 -.1629 -.1123 -.7574
.750 -.0777 .0156 .0326 .1912 -.3103
.900 -.1576 .1522 .0692 .1314 -.1423

MACH (1) = .165 ALPHA (6) = 19.985 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .1091 -.1687 -.2987 -.4784 -.4944
-.750 .0750 -.1632 -.5863 -.6841 -.6825
-.600 .2065 .1561 -.1216 .0200 .0381
-.450 .0206 .1623 -.1607 .2410 .0653
-.300 .3065 .2907 .1806 .6155 .2104
-.150 .4886 .4260 -.0730 .6577 .5019
.150 -.2986 -1.4680 -.6882 -1.1546 -1.0618
.300 -.4579 -.7845 -.5729 -1.1921 -.9861
.450 -.2659 -.5995 -.6103 -.9559 -.9493
.600 -.1387 -.3773 -.4960 -.7397 -.6902
.750 -.1619 -.1297 -.2439 -.2407 -.7002
.900 -.2152 .0274 -.1241 -.2076 -.0369

DATE 08 OCT 74 TABULATED SOURCE DATA - QAS7B

CAS7-B B16C5F1 J40 W87E16 WING TOTAL SURFACE (RDW445) (12 NOV 73)

REFERENCE DATA

REF Z = 4.4120 83 FT. XMRP = 43.5940 IN.
LREF Z = 19.2300 IN. FMRP = .0000 IN.
SCALE = 21.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.000
H/B = .125 BDFLAP = -10.000
ELEVON = -15.000

MACH (1) = .165 ALPHA (1) = -4.015 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.3323 -.3685 -.3800 -.3744 -.4477
-.750 -.4831 -.4106 -.4875 -.6644 -.4505
-.600 -.5068 -.4606 -.4820 -.4941 -.4779
-.450 -.8012 -.7033 -.4297 -.4286 -.5373
-.300 -.7673 -.8446 -.4191 -.1850 -.4701
-.150 .0073 -.5116 -.8595 -.5151 -.2595
.150 -.0425 -.1180 -.2285 -.2491 -.193
.300 -.1661 -.1822 -.2693 -.2262 -.2882
.450 -.0374 -.1957 -.2117 -.1365 -.1641
.600 .0261 -.0297 -.0133 .0281 .0253
.750 -.0236 .1561 .2363 .3339 .1471
.900 -.1657 .1669 .1798 .2079 .0418

MACH (1) = .165 ALPHA (2) = -.040 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.3782 -.2890 -.3303 -.3403 -.3494
-.750 -.4303 -.3824 -.4594 -.5393 -.6572
-.600 -.3326 -.3360 -.4019 -.3557 -.3588
-.450 -.2741 -.6142 -.5323 -.2834 -.2561
-.300 -.4009 -.4872 -.3601 -.2742 -.0031
-.150 .1061 -.2015 -.5598 .1927 .0701
.150 -.0782 -.2210 -.3732 -.4559 -.3920
.300 -.2077 -.2577 -.3016 -.3454 -.3370
.450 -.3731 -.0828 -.2365 -.2397 -.1856
.600 .0062 -.0450 -.0269 .0156 .0352
.750 -.0383 .1148 .1497 .1839 .2771
.900 .1745 -.1411 .1759 .1551 .1987

DATE 08 OCT 74 TABULATED SOURCE DATA - CA57B

(RDVH45)

MACH (1) = .165 ALPHA (3) = 4.950 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/R 0.000 .3340 .5200 .6630 .8730

X/C				
-.900	-.2274	-.2563	-.2928	-.3003
-.750	-.3303	-.3654	-.4137	-.3318
-.600	-.1556	-.1856	-.3111	-.2634
-.450	-.3865	-.3329	-.0707	-.0449
-.300	-.1274	-.1945	-.0738	-.0805
-.150	.2183	.0630	-.2951	.1494
.000	-.1701	-.4019	-.5031	-.7194
.150	-.2942	-.4183	-.4002	-.4520
.300	-.1389	-.3349	-.2472	-.2259
.450	-.0076	-.0907	-.0660	-.0345
.600	-.0710	.0753	.0347	.2126
.750	-.1567	.1331	.0649	.1782
.900				.0912

MACH (1) = .165 ALPHA (4) = 9.960 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/R 0.000 .3340 .5200 .6630 .8730

X/C				
-.900	-.1268	-.2080	-.2874	-.2453
-.750	-.1745	-.3009	-.6010	-.6072
-.600	-.0034	-.0503	-.2594	-.0363
-.450	-.1937	-.1343	.0247	.1056
-.300	.0634	.0185	.2607	.4148
-.150	.3031	.2179	-.0972	.4005
.000	-.2495	-.5362	-.6043	-.9330
.150	-.3439	-.4537	-.4741	-.5907
.300	-.1628	-.3797	-.3309	-.3130
.450	-.0409	-.1441	-.1314	-.1066
.600	-.0741	.0439	.0485	.2321
.750	-.1559	.1155	.0852	.2146
.900				-.0005

MACH (1) = .165 ALPHA (5) = 14.94 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/R 0.000 .3340 .5200 .6630 .8730

X/C				
-.900	-.0058	-.1611	-.2618	-.2426
-.750	-.0253	-.1930	-.5617	-.4903
-.600	-.1315	.0747	-.1921	.0485
-.450	-.0497	.0153	.0084	.1585
-.300	.2122	.1753	.3159	.5401
				.1327



(ADW445)

QAS7-B B16C5F1 J40 W8TE18 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (5) = 14.945

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.150 .3650 .3296 .0163 .5822 .4872
.150 -.2578 -1.0647 -.6912 -1.1513 -1.3119
.300 -.4172 -.6354 -.5128 -.6902 -.8149
.450 -.1964 -.3030 -.3750 -.3698 -.6845
.600 -.0551 -.2047 -.1812 -.1278 -.8218
.750 -.1112 .0123 .0294 .1871 -.3309
.900 -.1705 .1247 .0581 .1429 -.1703

MACH (1) = .165 ALPHA (6) = 19.970 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.6261 .0837 -.1775 -.2820 -.4069
-.750 -.0034 .0684 -.1685 -.4566 -.5194
-.600 .2286 .2296 .1488 -.0349 .0652
-.450 .1971 .0730 .1556 -.2956 .1601
-.300 .4838 .3347 .3003 .2419 .6060
-.150 .4868 .4865 .4345 .0576 .7431
.150 -.3287 -.3290 -1.4139 -.6643 -1.1058
.300 -.9858 -.5368 -.8005 -.5533 -1.1259
.450 -.9458 -.2902 -.6219 -.6322 -1.0474
.600 -.1199 -.1156 -.3906 -.5117 -.8629
.750 -.8831 -.1636 -.1345 -.2491 -.3276
.900 -.7233 -.2250 .0295 -.1509 -.2492

REFERENCE DATA

REF = 4.4120 82 FT. XMRP = 43.5940 IN.
 LREF = 19.2300 IN. YMRP = .0003 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 FTN/P = 1.300
 M/B = .125 BDFLAP = -16.000
 ELEVCH = 15.000

MACH (1) = .165 ALPHA (1) = -4.005 AN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.1988 -.1623 -.0063 .0686 -.0807
 -.750 -.2465 -.1596 -.0620 .1693 .0191
 -.600 -.3440 -.2921 -.2127 -.0314 .0664
 -.450 -.6952 -.0754 -.0709 -.1126 -.0759
 -.300 -.5649 -.4496 -.2179 -.1478 -.1211
 -.150 .0849 -.2993 -.5588 -.2684 -.1643
 .000 -.0760 -.1858 -.3463 -.4641 -.4766
 .150 -.2310 -.2923 -.4308 -.4715 -.6185
 .300 -.1569 -.3829 -.4442 -.4539 -.5784
 .450 -.0403 -.3179 -.3372 -.4326 -.6441
 .600 -.0916 -.3724 -.9315 -.4862 -.3870
 .750 -.2014 -.0820 -.0877 -.0359 -.0900

MACH (1) = .165 ALPHA (2) = -.010 AN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.1256 -.0490 .0074 .1388 -.0986
 -.750 -.1441 .0085 .0380 .2768 .0640
 -.600 -.1432 -.1172 -.0266 .0962 .1269
 -.450 -.4368 -.0481 .0209 .0475 .0289
 -.300 -.2114 -.1613 -.0615 .0538 -.0006
 -.150 .1816 -.0092 .1838 .0138 .0771
 .000 .1242 .3114 .5052 .7439 .7818
 .150 .2881 .3882 .5174 .6206 .7752
 .300 .1961 .4362 .4874 .5242 .6691
 .450 -.0717 .3348 .3312 .4567 .6819
 .600 .1139 .3227 .6598 .4542 .4306
 .750 .1835 .1221 .1072 .0822 .1413



DATE 08 OCT 74

TABULATED SOURCE DATA - CAS7B
CAS7-B B16C5F1 J41 W0TE18 WING TOTAL SURFACE (RDVW46)

MACH (1) = .165 ALPHA (5) = 4.985 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C				
- .900	-.0223	.0790	.0384	.1574
- .750	.0314	.1736	.2009	.3592
- .600	.0738	.0847	.1238	.2180
- .450	-.1613	.1781	.2299	.2040
- .300	.0620	.1104	.2301	.2664
- .150	.2948	.2405	.0753	.3022
.150	-.2318	-.6079	-.6425	-1.0575
.300	-.5631	-.6164	-.5857	-.7803
.450	-.2306	-.5437	-.4922	-.5961
.600	-.0946	-.3457	-.3349	-.4902
.750	-.1458	-.3091	-.4553	-.4630
.900	-.1593	-.0430	-.1267	-.1516

MACH (1) = .165 ALPHA (4) = 9.970 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C				
- .900	.0821	.2123	.1009	-.0308
- .750	.1734	.3060	.2600	.2940
- .600	.2249	.2122	.1948	.2266
- .450	.0038	.3241	.3363	.2291
- .300	.2299	.2717	.3673	.3926
- .150	.3844	.3656	.1710	.3665
.150	-.2846	-.7617	-.7668	-1.2871
.300	-.4111	-.6101	-.6329	-.8953
.450	-.2591	-.5602	-.5408	-.6433
.600	-.1042	-.3687	-.3830	-.5099
.750	-.1572	-.3286	-.6474	-.4433
.900	-.1679	-.0908	-.0321	-.1254

MACH (1) = .165 ALPHA (5) = 14.960 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C				
- .900	.1948	.2652	.1175	-.0634
- .750	.2598	.3992	.3013	.2603
- .600	.3196	.2890	.2604	.2238
- .450	.1137	.4186	.3524	.2855
- .300	.3417	.3578	.3903	.4750

C457-B 816C5F1 J41 W37E10 WING TOTAL SURFACE

(RDYV46)

MACH (1) = .165 ALPHA (5) = 14.960

SECTION (1) WING

DEPENDENT VARIABLE (C)

Z/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.150	.4377	.4302	-.0602	.2745	.4408
.150	-.3223	-1.3415	-.0205	-1.4469	-2.5787
.300	-.4815	-.8466	-.7285	-.9923	-2.1809
.450	-.2942	-.7167	-.6606	-.6798	-2.0303
.600	-.1335	-.4342	-.4905	-.5404	-1.6256
.750	-.1643	-.3955	-.8492	-.3936	-1.2293
.900	-.1915	-.1724	-.1367	-.2786	-.6242

MACH (1) = .165 ALPHA (6) = 19.990

ANAL = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE (P)

Z/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	.2012	.2820	.0465	-.1124	-.2130
-.750	.3216	.4524	.4041	.2301	.1825
-.600	.3980	.3482	.2808	.2417	.3534
-.450	.2182	.4953	.3918	.2906	.3074
-.300	.4493	.4394	.1921	.3750	.3676
-.150	.5342	.5276	.1110	.1426	.4677
.150	-.3467	-1.6653	-.8183	-1.4687	-1.1514
.300	-.5193	-1.0104	-.7986	-1.3671	-1.1265
.450	-.3511	-.8698	-.9685	-1.2120	-1.1036
.600	-.2218	-.5949	-.8581	-1.0936	-1.0766
.750	-.2685	-.5717	-1.2188	-.8925	-.9741
.900	-.2812	-.2641	-.4525	-.7144	-.8929

CA57-B 816C5F1 J41 W8TE18 WING TOTAL SURFACE

(RDVW47) (12 NOV 75)

REFERENCE DATA

REF = 4.4120 84. FT. XMRP = 43.5940 IN.
 LREF = 19.2300 IN. MRP = .0000 IN.
 SCALE = 0.0050 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.000
 H/B = .125 BDFLAP = -16.000
 ELEVON = 15.000

MACH (1) = .165 ALPHA (1) = -4.010 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.800 -.1680 -.0982 -.0407 .0308 -.0912
 -.750 -.1986 -.0945 -.0350 .1420 .0123
 -.600 -.2314 -.2144 .1270 -.0259 .0690
 -.450 -.4668 -.1482 -.0069 -.0606 -.0667
 -.300 -.4283 -.3623 -.1448 .0259 -.1058
 -.150 .1064 -.2240 -.4729 -.2033 -.1260
 .150 .0834 -.1986 -.3628 -.4741 -.4962
 .300 .2404 .3013 .4447 .4915 .6343
 .450 .1551 .3802 .4493 .4574 .5927
 .600 .0468 .3243 .3146 .4201 .6384
 .750 .0938 .3719 .8871 .5121 .4012
 .900 .1984 .0749 .1019 .0659 .1036

MACH (1) = .165 ALPHA (2) = -.015 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.1358 -.0278 .0013 .1115 -.0932
 -.750 -.1151 .0461 .0634 .2726 .0548
 -.600 -.0614 .0651 .0097 .1001 .1319
 -.450 .3026 .0093 .0764 .0981 .0416
 -.300 .1337 .1018 .0532 .2182 .0132
 -.150 .2058 .0293 .1428 .0445 .0952
 .150 .1194 .3099 .5103 .7575 .8016
 .300 .2961 .5870 .5097 .6261 .7832
 .450 .1983 .4369 .4822 .5111 .6708
 .600 .0605 .3282 .3375 .4448 .6090
 .750 .1180 .3155 .5964 .4625 .4444
 .900 .1820 .0920 .1357 .0853 .1474

DATE 08 OCT 74 TABULATED SOURCE DATA - CA57B (RD1447)

MACH (1) = .165 ALPHA (3) = 4.935 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/8	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	-.1070	.0722	.0132	.1068	-.1256
-.750	.0294	.1714	.1777	.3565	.0933
-.600	.1122	.0765	.1103	.2361	.1767
-.450	-.0845	.1987	.2469	.2537	.1164
-.300	.1031	.1773	.2898	.4210	.1162
-.150	.3023	.2540	.0885	.3250	.2466
.150	-.2261	-.6079	-.6519	-1.0707	-1.2391
.300	-.3620	-.6137	-.5881	-.7928	-.9789
.450	-.2336	-.5363	-.5015	-.6021	-.8000
.600	-.0995	-.3486	-.3677	-.4838	-.7444
.750	-.1490	-.3188	-.4819	-.4524	-.6025
.900	-.1698	-.0252	-.1233	.11672	-.3117

MACH (1) = .165 ALPHA (4) = 9.965 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/8	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	.0710	.1705	.0635	.0171	-.1804
-.750	.1487	.2823	.2283	.3495	.0984
-.600	.2405	.1924	.2103	.3196	.2516
-.450	.0692	.3292	.3387	.3537	.1661
-.300	.2475	.2774	.3597	.5328	.2138
-.150	.3862	.3692	.2115	.5188	.3690
.150	-.2662	-.7529	-.7421	-1.3016	-1.6485
.300	-.4239	-.6262	-.6172	-.8964	-1.1642
.450	-.2490	-.5717	-.5541	-.6476	-.9573
.600	-.1108	-.3782	-.3872	-.5121	-.8438
.750	-.1675	-.3538	-.6629	-.4614	-.7479
.900	-.1753	-.0967	-.0748	-.1300	-.4792

MACH (1) = .165 ALPHA (5) = 14.985 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/8	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	.1376	.2085	.1078	-.1807	-.2289
-.750	.2325	.3475	.2921	.2000	.1391
-.600	.3244	.2699	.2799	.1752	.3286
-.450	.1650	.4192	.2818	.2475	.2633
-.300	.3372	.3658	.2090	.4305	.3321

DATE 08 OCT 74 TABULATED SOURCE DATA - QM7B

(RDYH47)

CAST-B B16C3F1 J41 W0TE18 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (5) = 14.985

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C

-.150 .4575 .4519 .1073 .4040 .4418
 .150 -.3165 -1.3269 -.8180 -1.5065 -2.1908
 .300 -.4824 -.8429 -.7116 -1.0591 -2.0125
 .450 -.2985 -.7178 -.6712 -.7228 -2.0771
 .600 -.1426 -.4412 -.4812 -.5647 -1.6882
 .750 -.1702 -.4178 -.8364 -.4271 -1.2507
 .900 -.2035 -.1569 -.1805 -.2967 -.9266

MACH (1) = .165 ALPHA (6) = 19.980 RV/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .1828 .2118 .0460 -.2852 -.2013
 -.750 .2832 .3892 .3041 .1991 .1570
 -.600 .3914 .5237 .2714 .2419 .3460
 -.450 .2531 .4870 .3949 .3741 .5148
 -.300 .4528 .4429 .3998 .4874 .3623
 -.150 .5332 .5266 .1606 .3492 .4746
 .150 -.3391 -1.6254 -.7835 -1.5083 -1.1077
 .300 -.5218 -.9904 -.8029 -1.2736 -1.0842
 .450 -.3373 -.8488 -.9564 -1.1634 -1.0854
 .600 -.2124 -.5916 -.8086 -1.0846 -1.0555
 .750 -.2823 -.5686 -1.1400 -.8817 -.9603
 .900 -.2866 -.2538 -.4444 -.7286 -.6859

DATE 08 OCT 74 TABULATED SOURCE DATA - CA378

(RDVW48) (12 NOV 73)

CA37-B 815C5F1 J41 W07E1R WING TOTAL SURFACE

REFERENCE DATA

SREF = 4.4120 84.FT. XMRP = 43.5940 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.300
 H/B = .039 BDFLAP = -18.000
 ELEVON = 15.000

MACH (1) = .165 ALPHA (1) = .000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .7631 .6963 .7401 .1762 -.3977
 -.750 .6303 .7270 .5757 -.0233 -.3017
 -.600 .5406 .5310 .2996 .2285 -.1607
 -.450 .4178 .6264 .4174 .1894 -.1370
 -.300 .5278 .5406 .3904 .3478 -.0726
 -.150 .4902 .5315 .2591 .3023 .1433
 .150 -.2650 -.7833 -.7237 -1.2001 -1.5481
 .300 -.4070 -.3865 -.5757 -.8120 -1.1211
 .450 -.2509 -.5212 -.4971 -.5793 -.9531
 .600 -.1036 -.3668 -.3594 -.4244 -.7970
 .750 -.1482 -.3066 -.3923 -.3024 -.6456
 .900 -.1602 -.0331 -.0339 -.0984 -.3910

MACH (1) = .165 ALPHA (2) = 4.990 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .7737 .6879 .6761 .4933 -.4440
 -.750 .6866 .7272 .6141 -.5195 -.2122
 -.600 .5607 .5127 .2548 .1036 -.0526
 -.450 .4477 .6340 .4076 .1399 .0350
 -.300 .5493 .5402 .1090 .1890 .1612
 -.150 .5228 .5518 -.0647 .0233 .3248
 .150 -.3162 -1.3147 -.7661 -1.3938 -2.5556
 .300 -.4627 -.7817 -.6356 -.9339 -2.0813
 .450 -.2844 -.6334 -.5923 -.6025 -1.9875
 .600 -.1441 -.3912 -.4247 -.5281 -1.5139
 .750 -.1656 -.3595 -.5231 -.3839 -1.1434
 .900 -.2087 -.1001 -.1673 -.2590 -.8858



(RDVW48)

QAS7-B 816C5F1 J41 W87E18 WING TOTAL SURFACE

MACH (1) = .185 ALPHA (3) = 10.000 RN/L = 1.200 MACH = .185

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .0000 .0040 .0200 .0630 .0750

X/C	.0000	.0040	.0200	.0630	.0750
-.900	.8444	.6941	.5986	.5162	-.4048
-.750	.7133	.5710	.4716	-.3462	-.1217
-.600	.5812	.4476	.3107	.1569	.0952
-.450	.4932	.3617	.2109	.0530	.1110
-.300	.3918	.2682	.1110	.2227	.2177
-.150	.2747	.1678	-.2328	.0142	.3701
.150	-.3804	-1.6163	-.7949	-1.5824	-1.1694
.300	-.6100	-.9755	-.7848	-1.3836	-1.1528
.450	-.4150	-.8293	-.9788	-1.1900	-1.1132
.600	-.2757	-.6273	-.7852	-1.0933	-1.0579
.750	-.3067	-.5635	-.8584	-.9087	-.9460
.900	-.2971	-.2496	-.4585	-.7185	-.6493

REFERENCE DATA

MEF = 4.4120 82. FT. XMRP = 43.5940 IN.
 LREF = 19.2300 IN. XMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4030 IN.
 SCALE = .0403

PARAMETRIC DATA

BETA = .000 PTN/P = 1.000
 H/B = .039 BDFLAP = -18.000
 ELEVON = 15.000

MACH (1) = .165 ALPHA (1) = -.005 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE C_p

21/B .0000 .3340 .5200 .6630 .8730

X/C

- .900 .3463 .5154 .3645 .3219 -.3819
 -.750 .3998 .5366 .6063 .1671 -.3495
 -.600 .4872 .4513 .3491 .2078 -.1486
 -.450 .3967 .5774 .4138 .1800 -.1695
 -.300 .5026 .5080 .3696 .3602 -.0498
 -.150 .4767 .5187 .2778 .3830 .1386
 .150 -.2902 -.7480 -.7249 -1.2086 -1.5723
 .300 -.4672 -.6079 -.5877 -.8192 -1.1334
 .450 -.2584 -.5146 -.5134 -.5733 -.9432
 .600 -.1111 -.3593 -.3738 -.4339 -.8018
 .750 -.1123 -.3226 -.3794 -.3034 -.6659
 .900 -.1635 -.0469 -.0489 -.0959 -.3910

MACH (1) = .165 ALPHA (2) = 4.995 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE C_p

21/B .0000 .3340 .5200 .6630 .8730

X/C

- .900 .4398 .5250 .3626 .2766 -.4127
 -.750 .5507 .5676 .5242 .1249 -.2321
 -.600 .5226 .4297 .3767 .1875 -.0924
 -.450 .4440 .5904 .4394 .2253 .0274
 -.300 .5293 .5136 .1372 .2253 .1738
 -.150 .5148 .5367 -.0302 .0545 .3367
 .150 -.3503 -1.2720 -.7645 -.4114 -2.5406
 .300 -.5804 -.7965 -.6738 -.455 -2.1446
 .450 -.3348 -.6252 -.6842 -.6275 -2.0503
 .600 -.1288 -.4281 -.4930 -.5196 -1.5740
 .750 -.1523 -.3779 -.5060 -.3881 -1.2283
 .900 -.1929 -.1115 -.2045 -.2550 -.7959

DATE 08 OCT 74 TABULATED SOURCE DATA - QAS7B

(RDVW49)

MACH (1) = .165 ALPHA (3) = 9.995 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/r/a .0000 .3340 .5200 .6630 .8730

X/C

-.900	.5148	.5272	.3084	.2231	-.3609
-.750	.5688	.6038	.5390	.1360	-.1474
-.600	.5702	.4655	.4007	.2474	.0707
-.450	.4958	.6232	.4803	.2806	.1109
-.300	.5799	.5493	.3464	.2704	.2052
-.150	.5703	.5768	-.2289	.0422	.3507
.150	-.4116	-1.5637	-.8045	-1.5932	-1.1814
.300	-.6882	-.9718	-.7826	-1.3870	-1.1658
.450	-.4210	-.8227	-1.0104	-1.1910	-1.1083
.600	-.2366	-.6252	-.8794	-1.0896	-1.0563
.750	-.3050	-.5569	-.8434	-.8478	-.9613
.900	-.2864	-.2378	-.5108	-.7487	-.8393

REFERENCE DATA

MRP = 4.4120 82.FT. MRP = 43.5940 IN.
 LREF = 19.2300 IN. LREF = .0000 IN.
 BREF = 37.9350 IN. BREF = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.300
 M/B = .286 BOFLAP = -18.000
 ELEVON = 15.000

MACH (1) = .165 ALPHA (1) = -4.010 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

21/8	.0000	.3340	.5200	.6630	.8730
X/C					
- .900	-.0091	-.0568	.0078	.0738	-.0950
- .750	-.1238	-.0609	-.0222	.1344	-.0035
- .600	-.2092	-.0908	-.1216	-.0215	.0797
- .450	-.5098	-.1507	-.0113	-.0303	-.0524
- .300	-.3533	-.3145	-.1516	.1110	-.1054
- .150	.0851	-.2223	-.4750	-.2265	-.1318
.150	-.0683	-.1903	-.3566	-.4706	-.4743
.300	-.2237	-.2787	-.4245	-.4790	-.6210
.450	-.1539	-.3450	-.4626	-.4442	-.5684
.600	-.0327	-.3246	-.3757	-.4292	-.5975
.750	-.0847	-.3424	-.4977	-.4924	-.4524
.900	-.1924	-.0358	-.0448	-.0354	-.1188

MACH (1) = .165 ALPHA (2) = -.020 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

21/8	.0000	.3340	.5200	.6630	.8730
X/C					
- .900	.0279	-.0025	.0434	.1575	-.0977
- .750	-.0743	.0433	.0369	.2339	.0370
- .600	-.1264	.0892	-.0180	.0810	.1496
- .450	-.4008	-.0536	.0339	.0611	.0384
- .300	-.2170	-.1753	-.0364	.1753	.0154
.150	.1508	-.0465	-.2007	.0102	.0818
.300	-.1102	-.2843	-.4861	-.7148	-.7456
.450	-.2752	-.3667	-.4970	-.5997	-.7526
.600	-.1832	-.3942	-.4955	-.5087	-.6385
.750	-.0597	-.3267	-.3560	-.4365	-.6322
.900	-.1044	-.3156	-.4195	-.4514	-.4602
.900	-.1620	-.0684	-.0643	-.0603	-.1691

DATE 08 OCT 74

TABULATED SOURCE DATA - QAS78

PAGE 301

CAS7-B B16CSF1 J41 WOTE18 WING TOTAL SURFACE

(RDWV30)

MACH (1) = .165 ALPHA (3) = 4.965 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0757 .0076 -.0126 .1987 -.1109
 -.750 -.0034 .1160 .1462 .3088 .0784
 -.600 -.0134 .0152 .0336 .1994 .1993
 -.450 -.2684 .0700 .1818 .2074 .1163
 -.300 -.0524 .0003 .2125 .3770 .1171
 -.150 .2363 .1398 .0060 .2662 .2333
 .150 -.2323 -.4770 -.6416 -1.0136 -1.1613
 .300 -.3599 -.5194 -.5759 -.7585 -.9388
 .450 -.2269 -.4942 -.5033 -.5768 -.7620
 .600 -.0816 -.3680 -.3549 -.4696 -.6808
 .750 -.1225 -.2908 -.2794 -.4757 -.5354
 .900 -.1630 -.1094 -.1908 -.1232 -.3000

MACH (1) = .165 ALPHA (4) = 9.975 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .1333 .0900 -.0094 .2347 -.1567
 -.750 .0833 .1970 .1554 .2188 .0926
 -.600 .0906 .1015 .1009 .2849 .2317
 -.450 -.1497 .1934 .2998 .2860 .1843
 -.300 .0934 .1396 .3912 .4695 .1961
 -.150 .3203 .2700 .1211 .3938 .3497
 .150 -.2747 -.7604 -.7449 -1.2911 -1.5804
 .300 -.4349 -.5923 -.6423 -.8807 -1.1087
 .450 -.2538 -.5328 -.5589 -.6549 -.9071
 .600 -.1026 -.2833 -.4117 -.5306 -.7759
 .750 -.1565 -.3381 -.3922 -.4947 -.6710
 .900 -.1672 -.0988 -.0963 -.2116 -.4887

MACH (1) = .165 ALPHA (5) = 14.980 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .1630 .1468 .0408 .1374 -.1753
 -.750 .1164 .2609 .2245 .3450 .1492
 -.600 .1726 .1682 .2050 .2734 .3186
 -.450 -.0601 .2923 .2931 .3074 .2452
 -.300 .2117 .2355 .1544 .4847 .3055

DATE 08 OCT 74 TABULATED SOURCE DATA - CA378

(RDYN50)

CA37-B B16C5F1 J41 W07E10 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (5) = 14.980

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

.150 .3933 .3623 -.0843 .3493 .4357
 .150 -.3487 -1.2603 -.8073 -1.4078 -2.5545
 .300 -.5572 -.7995 -.6973 -.9243 -1.4003
 .450 -.3242 -.6914 -.6633 -.6615 -1.1226
 .600 -.1273 -.4436 -.5029 -.4997 -1.0302
 .750 -.1249 -.4063 -.4964 -.3445 -.9894
 .900 -.1706 -.1632 -.1765 -.2455 -.7150

MACH (1) = .165 ALPHA (6) = 19.980 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

.150 .1756 .1152 -.1073 -.0829 -.2177
 .150 .1910 .2820 .1783 .3783 .1701
 .300 .2421 .2231 .2040 .3258 .3572
 .450 .0343 .3741 .3176 .4121 .0920
 .600 .3297 .3460 .2834 .5647 .3644
 .750 .4754 .4746 .0956 .4299 .4844
 .900 -.4035 -1.5103 -.7638 -1.3176 -1.0169
 .370 .1207 .0563 .7482 -1.1313 1.0287
 .410 .3796 .8388 .9373 -1.1150 -1.0169
 .610 .1415 .0020 .8423 -1.7452 -1.0370
 .710 .1249 .0798 .0357 -.3374 -.9335
 .910 .1282 .1221 .1501 -.8256 -.6614



REFERENCE DATA
 CHORD = 41.90 IN. WING AREA = 43.5940 IN.
 LIFT = 19.2500 IN. CLIP = 0.0000 IN.
 DRIFT = 37.9350 IN. CLIP = -4.0500 IN.
 SCALE = .0405

MACH (1) = .165 ALPHA (1) = -4.015 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C	0.000	.3340	.5200	.6630	.8750
0.000	-.0632	-.0529	-.0223	.0667	-.0884
.750	-.1290	-.0348	.0026	.1828	.0343
.600	-.1531	-.1198	-.0556	.0734	.0727
.450	-.3761	-.0848	.0287	-.0268	-.0718
.300	-.3364	-.2870	-.1172	.0688	-.0751
.150	-.0952	-.1690	-.4063	-.1797	-.1130
.000	-.0707	-.1685	-.3239	-.4456	-.4897
.500	-.2428	-.2887	-.4101	-.4492	-.6036
.450	-.1373	-.3540	-.4641	-.4395	-.5616
.400	-.0346	-.2965	-.3313	-.4007	-.6019
.350	-.0935	-.3454	-.4466	-.5010	-.4517
.300	-.1779	-.0753	-.1316	-.0533	-.1268

MACH (1) = .165 ALPHA (2) = -.005 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

X/C	0.000	.3340	.5200	.6630	.8750
0.000	-.0285	-.0024	.0032	.0983	-.0915
.750	-.0723	.0627	.0420	.2386	.0802
.600	-.0723	-.1255	.0145	.0786	.1466
.450	-.2891	.0387	.0590	.0789	.0084
.300	-.1910	-.1395	-.0092	.1991	.0205
.150	-.1826	-.0241	-.1674	.0274	.0833
.000	-.1063	-.2802	-.4925	-.7220	-.7665
.500	-.2816	-.3701	-.5055	-.6065	-.7637
.450	-.1641	-.3991	-.4942	-.5081	-.6467
.400	-.0516	-.3169	-.3469	-.4308	-.6438
.350	-.1053	-.3062	-.3884	-.4697	-.4821
.300	-.1634	-.0802	-.1326	-.0922	-.1922

PARAMETRIC DATA

BETA = .000 PTN/P = 1.000
 M/B = .286 SDFLAP = -18.000
 ELEVON = 15.000

C4578 B16C3F1 J41 W0TE10 WING TOTAL SURFACE (ROWMS1)

MACH (1) = .165 ALPHA (3) = 4.985 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0257 .0039 -.1361 .1603 -.1037
 -.750 -.0064 .1104 .1004 .3667 .1057
 -.600 .0170 .0146 .0644 .2109 .2019
 -.450 -.1890 .0221 .2053 .2256 .1034
 -.300 -.0406 .0164 .2383 .4005 .1088
 -.150 .2362 .1225 .0127 .2769 .2410
 .150 -.2745 -.4737 -.6370 -1.0125 -1.1759
 .300 -.4140 -.5165 -.5825 -.7577 -.9498
 .450 -.2439 -.3064 -.5050 -.5754 -.7790
 .600 -.0788 -.3617 -.3514 -.4578 -.6891
 .750 -.1100 -.2933 -.2813 -.4606 -.5637
 .900 -.1586 -.0944 -.1541 -.1335 -.3329

MACH (1) = .165 ALPHA (4) = 9.990 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0619 .0713 -.0879 .1556 -.1599
 -.750 .0582 .1894 .0993 .4159 .1262
 -.600 .1136 .1060 .1592 .3764 .2305
 -.450 -.0246 .1417 .2937 .3303 .1534
 -.300 .0358 .1421 .3965 .5106 .2117
 -.150 .3157 .2714 .1450 .4579 .3586
 .150 -.2310 -.7667 -.7121 -1.1334 -1.5940
 .300 -.4507 -.6163 -.6335 -.8475 -1.1358
 .450 -.2629 -.5583 -.5733 -.6613 -.9283
 .600 -.1082 -.3941 -.3984 -.5190 -.7929
 .750 -.1321 -.3674 -.3690 -.5078 -.7220
 .900 -.1734 -.1246 -.1323 -.1853 -.5168

MACH (1) = .165 ALPHA (5) = 14.970 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .1187 .1066 -.0506 .0673 -.1553
 -.750 .1104 .2447 .1409 .4101 .1327
 -.600 .1894 .1600 .1991 .3634 .3103
 -.450 -.0023 .2347 .2446 .3653 .2413
 -.300 .2162 .2424 .2176 .3488 .3088

(RDVW51)

CA37-B 816C5F1 J41 W07E18 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (5) = 14.970

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

Z/C

-.150 .3950 .3654 .0598 .5686 .4437
 .150 -.3490 -1.2275 -.8101 -1.4635 -2.6381
 .300 -.5680 -.7993 -.6882 -.9738 -1.4079
 .450 -.3153 -.6818 -.6462 -.6556 -1.1874
 .600 -.1357 -.4304 -.4808 -.4817 -1.0358
 .750 -.1461 -.4057 -.4543 -.3479 -1.0047
 .900 -.1722 -.1674 -.1761 -.2260 -.7453

MACH (1) = .165 ALPHA (6) = 19.960 AN/L = 1.800 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

Z/C

-.900 .1346 .0868 -.0554 -.1669 -.2013
 -.750 .1279 .2654 .1728 .3126 .1582
 -.600 .2445 .1789 .2068 .2781 .3330
 -.450 .0875 .3129 .2939 .3247 .2862
 -.300 .3200 .3235 .2015 .4443 .3629
 -.150 .4692 .4456 .0847 .3109 .4872
 .150 -.4009 -1.5382 -.7593 -1.4381 -1.0893
 .300 -.5982 -.9662 -.7485 -1.1717 -1.0566
 .450 -.3781 -.8186 -.9164 -1.1567 -1.0410
 .600 -.1960 -.5768 -.7956 -1.0372 -1.0071
 .750 -.2739 -.5628 -.7896 -.7811 -.9209
 .900 -.2794 -.2653 -.5336 -.7594 -.8432

(RDWMS2) (12 NOV 73)

CASTB-B B16C3F1 J41 WBT10 WING TOTAL SURFACE

PARAMETRIC DATA

BETA = .000 PTN/P = 1.300
M/B = .286 BDFLAP = -18.000
ELEVON = .000

REFERENCE DATA

WREF = 4.4120 82.471 WREF = 43.5940 IN.
LREF = 18.2300 IN. WREF = .0000 IN.
BREF = 37.9350 IN. WREF = -.4050 IN.
SCALE = .0405

MACH (1) = .165 ALPHA (1) = -4.005 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .3200 .6630 .8730

X/C				
.900	-.0522	-.1294	-.1283	-.1414
.750	-.2239	-.2567	-.2190	-.3520
.600	-.2980	-.3789	-.2473	-.2082
.450	-.6085	-.3279	-.1171	-.1907
.300	-.4364	.4745	-.2383	-.0649
.150	-.0566	-.3005	-.3783	-.377
.100	-.0406	-.1182	-.2424	-.3185
.050	-.1702	-.2076	-.3115	-.3146
.000	-.0868	-.2357	-.3281	-.2685
.000	.0171	-.1606	-.1553	-.1931
.750	-.0277	-.0779	-.0901	.0068
.900	.1361	.0766	.0693	.1341

MACH (1) = .165 ALPHA (1) = -4.005 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .3200 .6630 .8730

X/C				
.900	-.2233	-.1233	-.0840	-.2390
.750	-.1754	-.2281	-.1806	-.3369
.600	-.2123	-.3101	-.1910	-.116
.450	-.5066	-.2365	-.0473	-.0781
.300	-.2934	-.2222	-.1322	-.0979
.150	-.1221	-.1332	-.3502	-.0922
.100	-.0834	-.2363	-.4122	-.5635
.050	-.2241	-.2935	-.4081	-.4503
.000	-.1768	-.2936	-.3733	-.3361
.000	.0143	-.1858	-.1401	-.2160
.750	-.0363	-.0812	-.0958	-.0033
.900	-.1378	.0786	.0782	.1227



C137-B B16CSF1 J41 V17.8 WING TOTAL SURFACE (RDVW52)

MACH (1) = .165 ALPHA (3) = 4.995 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0075 -.0762 -.0659 -.1076 -.1762
 -.750 -.1063 -.1618 -.1587 -.3053 -.3344
 -.600 -.1012 -.2162 -.0928 -.0087 -.2035
 -.450 -.3740 -.1124 .0861 .0676 -.1355
 -.300 -.1237 -.1165 .1004 .3086 .0343
 -.150 .2070 .0710 -.0820 .1746 .1525
 .100 -.1939 -.3956 -.5409 -.8358 -.8937
 .300 -.3578 -.4296 -.4688 -.3816 -.7288
 .450 -.2505 -.3778 -.3631 -.3685 -.6718
 .600 -.0292 -.2513 -.1942 -.2297 -.3406
 .750 -.0792 -.1139 -.1003 -.0354 -.1550
 .900 -.1306 .0340 -.0011 .0825 -.0230

MACH (1) = .165 ALPHA (4) = 9.990 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0617 -.0449 -.1088 -.0944 -.2144
 -.750 -.0372 -.1004 -.1221 -.2514 -.2961
 -.600 -.0022 -.1370 -.0726 .0697 .1366
 -.450 -.2536 .0169 .2004 .1678 -.0285
 -.300 .0216 .0435 .3461 .4127 .1209
 -.150 .2862 .2036 .0432 .3382 .2638
 .100 -.2781 -.6931 -.6646 -1.1032 -1.2993
 .300 -.4116 -.5335 -.5538 -.7283 -.9147
 .450 -.2356 -.4426 -.4611 -.4711 -.7554
 .600 -.0645 -.2725 -.2626 -.2973 -.4318
 .750 -.1018 -.1526 -.1437 -.0901 -.2644
 .900 -.1498 .0455 .0068 .0346 -.1211

MACH (1) = .165 ALPHA (5) = 14.990 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0576 -.0371 -.0760 -.1372 -.2644
 -.750 .0237 -.0418 -.0992 -.1528 -.2480
 -.600 .0946 -.0634 -.0323 .1735 .0421
 -.450 -.1572 .1425 .2402 .2072 .0715
 -.300 .1345 .1536 .2912 .4193 .2070

DATE 08 OCT 74 TABULATED SOURCE DATA - CAS7B

CAS7-B B16CSF1 J41 WATE18 WING TOTAL SURFACE (RDVMS2)

MACH (1) = .165 ALPHA (5) = 14.990

SECTION (1) WING DEPENDENT VARIABLE CP

Z'/B .0000 .3340 .5200 .6630 .8730

X/C

-.150 .3668 .5070 .0999 .3963 .3843
 .150 -.2966 -1.1488 -.7677 -1.2760 -1.6099
 .300 -.4937 -.7301 -.6466 -.8305 -1.0865
 .450 -.2705 -.5636 -.5045 -.5163 -.8554
 .600 -.0855 -.3180 -.3162 -.3197 -.6939
 .750 -.1123 -.1788 -.1998 -.0461 -.5432
 .900 -.1521 .0268 -.0128 .0768 -.3128

MACH (1) = .165 ALPHA (6) = 19.990 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z'/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .1296 -.0458 -.1507 -.3198 -.3698
 -.750 .0744 .0106 -.1205 -.2283 -.2545
 -.600 .1848 .0941 .0663 .2220 .0265
 -.450 -.0317 .2515 .2372 .3377 .1666
 -.300 .2846 .2829 .2468 .5505 .3021
 -.150 .1583 .4154 .0273 .4899 .4670
 .150 -.3662 -1.4991 -.7462 -1.2837 -1.2177
 .300 -.5302 -.8858 -.6892 -1.3366 -1.1384
 .450 -.3461 -.6862 -.7707 -1.0350 -1.0982
 .600 -.1565 -.4245 -.5848 -.9292 -1.0195
 .750 -.2226 -.3182 -.5517 -.3505 -.8341
 .900 -.2217 -.1024 -.2148 -.2953 -.5819

DATE 08 OCT 74 TABULATED SOURCE DATA - QAS78

QAS7-B B16C5F1 J41 W0TE18 WING TOTAL SURFACE (RDVW53) (12 NOV 73)

REFERENCE DATA

BREF = 4.4120 84.FT. XMRP = 43.5940 IN.
LREF = 19.2300 IN. YMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.000
M/B = .286 BDFLAP = -18.000
ELEVON = .000

MACH (1) = .165 ALPHA (1) = -4.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	-.1248	-.1125	-.1075	-.1206	-.1746
-.750	-.2023	-.1874	-.1770	-.3056	-.3740
-.600	-.2388	-.2701	-.1947	-.1670	-.3371
-.450	-.4820	-.2863	-.0801	-.1603	-.3357
-.300	-.4080	-.4353	-.2143	-.0311	-.2267
-.150	-.0611	-.2701	-.5494	-.3044	-.2702
.150	-.0466	-.1259	-.2533	-.3220	-.3102
.300	-.1828	-.2106	-.3210	-.3267	-.4279
.450	-.0928	-.2540	-.3367	-.2677	-.6245
.600	.0072	-.1658	-.1623	-.1126	-.2777
.750	-.0354	-.0737	-.1268	-.0170	-.0997
.900	-.1483	.3154	.0775	.1006	.0104

MACH (1) = .165 ALPHA (2) = -.005 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	-.0886	-.0866	-.0723	-.1032	-.1607
-.750	-.1660	-.1504	-.1343	-.2908	-.3565
-.600	-.1582	-.2697	-.1399	-.1024	-.2812
-.450	-.4011	-.1970	-.0365	-.0548	-.2333
-.300	-.2768	-.2873	-.0907	.1246	-.0992
-.150	.1277	.1111	.3013	-.0721	-.0357
.150	-.0869	-.2389	-.4218	-.5783	-.5664
.300	-.2422	-.3092	-.4185	-.4733	-.5717
.450	-.1390	-.3110	-.3815	-.3363	-.7111
.600	-.0190	-.1883	-.1837	-.1455	-.3053
.750	-.0719	-.0912	-.1255	-.0364	-.1431
.900	-.1446	.0494	.0607	.0926	.0058

QAS7-B 816C5F1 J41 W07E18 WING TOTAL SURFACE (RDVW53)

MACH (1) = .165 ALPHA (3) = 4.985 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.0518 -.0770 -.0802 -.0963 -.1901
 -.750 -.1081 -.1076 -.1534 -.2720 -.3371
 -.600 -.0692 -.2248 -.0870 .0180 -.2106
 -.450 -.2971 -.0883 .1086 .0855 -.1428
 -.300 -.1222 -.0987 .1144 .3198 .0278
 -.150 .2017 .0764 -.0782 .1727 .1523
 .150 -.1835 -.4064 -.5643 -.8579 -.9302
 .300 -.3139 -.4354 -.4890 -.6124 -.7540
 .450 -.1897 -.3829 -.3876 -.3910 -.7433
 .600 -.0602 -.2379 -.2035 -.1843 -.3633
 .750 -.1083 -.1187 -.1148 -.0693 -.1825
 .900 -.1510 .0364 -.0249 .0562 -.0397

MACH (1) = .165 ALPHA (4) = 9.980 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0048 -.0498 -.0778 -.0579 -.2210
 -.750 -.0370 -.0628 -.1218 -.1882 -.2967
 -.600 .0275 -.0173 -.0121 .1309 -.1376
 -.450 -.1093 .0302 .1960 .2148 -.0267
 -.300 .0279 .0496 .3626 .4366 .1240
 -.150 .2854 .2095 .0652 .3681 .2618
 .150 -.2748 -.6970 -.6533 -1.1099 -1.3216
 .300 -.4213 -.5289 -.5569 -.7317 -.9208
 .450 -.2290 -.4630 -.4578 -.4729 -.7879
 .600 -.0641 -.2752 -.2634 -.2618 -.4496
 .750 -.1002 -.1332 -.1584 -.0989 -.2738
 .900 -.1640 .0276 .0026 .0246 -.1348

MACH (1) = .165 ALPHA (5) = 14.985 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0643 -.0417 -.0586 -.0665 -.2655
 -.750 .0263 -.0101 -.0916 -.1142 -.2443
 -.600 .1146 .0398 .0730 .2530 -.0211
 -.450 -.0864 .1489 .2148 .3188 .0437
 -.300 .1572 .1745 .2924 .5384 .2190

CA37-B B16C3F1 J41 W07E10 WING TOTAL SURFACE

(RDVW53)

MACH (1) = .165 ALPHA (5) = 14.985

SECTION (1) WING

DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.150 .3689 .3163 .1543 .5475 .3975
 .150 -.3047 -1.1431 -.7266 -1.2737 -1.6231
 .300 -.5004 -.7688 -.5917 -.8184 -1.0958
 .450 -.2454 -.5737 -.5031 -.5170 -.6823
 .600 -.0930 -.3106 -.2931 -.3039 -.7182
 .750 -.1405 -.1232 -.2104 -.0493 -.5497
 .900 -.1567 .0206 -.0074 .0746 -.3136

MACH (1) = .165 ALPHA (6) = 19.980 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0918 -.0700 -.1344 -.2080 -.4011
 -.750 .0655 .0111 -.1326 -.1292 -.2684
 -.600 .1839 .0936 .0648 .2882 .0145
 -.450 -.0095 .2436 .1886 .3804 .1451
 -.300 .2755 .2794 .1960 .5256 .2946
 -.150 .4479 .4058 .1163 .5192 .4534
 .150 -.3316 -1.5120 -.7508 -1.2748 -1.1385
 .300 -.5093 -.6691 -.6741 -1.2512 -1.0927
 .450 -.3288 -.6671 -.7724 -1.1605 -1.0480
 .600 -.1693 -.4383 -.6207 -.9522 -1.0222
 .750 -.2735 -.1939 -.3746 -.4220 -.8472
 .900 -.2430 -.1029 -.2722 -.3321 -.6421

(ADWV34) (12 NOV 73)

C437-B B16C3F1 J41 W0TE18 WING TOTAL SURFACE

PARAMETRIC DATA

BREF = 4.4120 82.FT. XMRP = 43.5940 IN.
LREF = 19.2300 IN. (MRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

REFERENCE DATA

MACH (1) = .165 ALPHA (1) = 10.000 RN/L = 1.200 MACH = .165
SECTION (1) WING DEPENDENT VARIABLE CP

21/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	.4968	.1840	.0213	-.0256	-.4351
-.750	.3611	.3226	.2202	-.2017	-.5678
-.600	.4627	.3481	.2152	.0372	-.3722
-.450	.2755	.3239	.3374	.0417	-.2516
-.300	.4761	.4746	.3699	.3548	-.0629
-.150	.4826	.5016	.2240	.2937	.1330
.150	-.2640	-.6990	-.7026	-1.1007	-1.3582
.300	-.4304	-.5438	-.5426	-.7096	-.9437
.450	-.2475	-.4522	-.4404	-.4555	-.7960
.600	-.0726	.2775	-.2957	-.3069	-.4651
.750	-.1039	.0040	-.2500	-.0375	-.3018
.900	-.1707	.0230	.0157	.0755	-.2181

MACH (1) = .165 ALPHA (2) = 15.005 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	.6422	.3333	.1471	.0205	-.4169
-.750	.5522	.4755	.2873	-.0479	-.4032
-.600	.5187	.4194	.1914	.0683	-.0826
-.450	.3620	.5745	.3471	.0874	-.0265
-.300	.5168	.5132	.2527	.3153	.1427
-.150	.5280	.5373	.0343	.4113	.3245
.150	-.3189	-1.2277	-.7237	-1.3050	-2.6393
.300	-.5421	-.7316	-.5812	-.7713	-1.6507
.450	-.2856	-.5608	-.4996	-.4843	-1.1705
.600	-.1093	-.3190	-.3600	-.3383	.8774
.750	-.1347	-.0131	-.3557	-.1249	-.6430
.900	-.1717	.0060	-.0355	-.0419	-.3749



QM57-B B16C5F1 J41 W07E18 WING TOTAL SURFACE (RDVW54)

MACH (1) = .165 ALPHA (3) = 19.995 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900	.7885	.3853	.1558	-.1242	-.4653
-.750	.8288	.5504	.3272	-.1206	-.3542
-.600	.5640	.4870	.1934	.1177	-.0154
-.450	.4292	.8195	.4319	.1629	.0965
-.300	.5743	.5451	.2258	.2242	.2541
-.150	.5820	.5822	-.1521	-.0542	.3935
.150	-.3806	-1.5857	-.7440	-1.7274	-1.2475
.300	-.5681	-.8903	-.7422	-1.3473	-1.1797
.450	-.3907	-.7164	-.8373	-1.0912	-1.1428
.600	-.2351	-.5196	-.7069	-.9628	-1.0399
.750	-.2918	-.2123	-.6701	-.5394	-.8945
.900	-.2616	-.1288	-.3584	-.4765	-.6365

CA37-B B16C5F1 J41 W07E18 WING TOTAL SURFACE (RDW455) (12 NOV 73)

REFERENCE DATA

SAEP = 4.4120 83.FT. XMRP = 43.5940 IN.
 LAEP = 19.2300 IN. IMRP = .0000 IN.
 BRP = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.300
 H/B = .039 BDFLAP = -18.000
 ELEVON = .000

MACH (1) = .165 ALPHA (1) = 9.990 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Zr/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	.4560	.1806	.0206	-.0414	-.4293
-.750	.3631	.3235	.2536	-.1925	-.5584
-.600	.4350	.3405	.1948	.0389	-.3675
-.450	.2695	.5191	.3411	.0480	-.2499
-.300	.4688	.4681	.3773	.3597	-.0616
-.150	.4808	.4972	.2378	.2964	.1354
.150	-.2478	-.7010	-.7010	-1.0935	-1.3651
.300	-.4233	-.5429	-.5441	-.7133	-.9426
.450	-.2304	-.4554	-.4371	-.4565	-.7972
.600	-.0710	-.2717	-.2697	-.3078	-.4667
.750	-.1175	.0169	-.3267	-.0677	-.2992
.900	-.1690	.0188	.0083	.0676	-.2165

MACH (1) = .165 ALPHA (2) = 14.990 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Zr/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	.6221	.3284	.1219	.0194	-.4136
-.750	.5487	.4729	.2957	-.0590	-.4077
-.600	.5144	.4115	.1779	.0646	-.0826
-.450	.3375	.5708	.3505	.0852	-.0246
-.300	.5103	.5083	.2356	.3010	.1343
-.150	.5261	.5354	.0835	.3794	.3255
.150	-.3115	-1.2323	-.7159	-1.3056	-2.2639
.300	-.5251	-.7172	-.6035	-.7577	-1.6586
.450	-.2688	-.5664	-.5219	-.4757	-1.1943
.600	-.1093	-.3034	-.3445	-.3546	-.8548
.750	-.1564	.0080	-.2297	-.1394	-.6519
.900	-.1753	.0034	-.0918	-.0421	-.3804

CA37-B 816C5F1 J41 W87E18 WING TOTAL SURFACE (DOWN55)

MACH (1) = .165 ALPHA (3) = 19.995 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/Y .0000 .2500 .5200 .6630 .8750

X/C

-.900	.7702	.3928	.1416	-.1462	-.4722
-.750	.6204	.3377	.3231	-.1279	-.3593
-.600	.5372	.4865	.1809	.1209	-.0231
-.450	.4244	.6134	.4192	.1466	.0893
-.300	.5660	.5349	.2330	.2096	.2467
-.150	.5757	.5741	-.1634	-.0545	.3624
.150	-.3779	-1.6122	-.7635	-1.7649	-1.2344
.300	-.5794	-.9022	-.7510	-1.3425	-1.1794
.450	-.3895	-.7196	-.8621	-1.1056	-1.1583
.600	-.2412	-.5261	-.7240	-.9412	-1.0398
.750	-.2820	-.1858	-.6250	-.5676	-.8905
.900	-.2641	-.1338	-.4349	-.4410	-.6423

REFERENCE DATA

BREF = 4.4120 SQ.FT. XMRP = 43.5940 IN.

LREF = 19.2300 IN. YMRP = .0003 IN.

BREF = 37.9350 IN. ZMRP = -.4050 IN.

SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.000

M/B = .039 BDFLAP = -16.000

ELEVON = .000

MACH (1) = .165 ALPHA (1) = 10.005 AN/L = 1.200 MACH = .165

SECTION (1) WING

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .1451 .0944 .0449 -.0368 -.4433

-.750 .2147 .1645 .2335 -.1685 -.5156

-.600 .3941 .2267 .1393 -.0276 -.2663

-.450 .2664 .4831 .3212 .0482 -.1859

-.300 .4601 .4451 .3922 .4021 -.0369

-.150 .4737 .4858 .2557 .3788 .1669

.150 -.2531 -.6975 -.6952 -1.0889 -1.3774

.300 -.4300 -.5560 -.5427 -.7201 -.9539

.450 -.2271 -.4497 -.4434 -.4606 -.8174

.600 -.0795 -.2636 -.2778 -.3087 -.4845

.750 -.1224 .0126 -.1287 -.0781 -.3213

.900 -.1642 -.0119 -.0902 .0613 -.2465

MACH (1) = .165 ALPHA (2) = 15.020 AN/L = 1.200 MACH = .165

SECTION (1) WING

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .3353 .2042 .0823 .0012 -.4059

-.750 .3760 .2993 .3536 -.0349 -.3572

-.600 .4656 .3134 .1961 .1228 -.0373

-.450 .3630 .5330 .3569 .1310 .0048

-.300 .4934 .4818 .2395 .3261 .1611

-.150 .3114 .5163 .1092 .4315 .3410

.150 -.3307 -1.2376 -.7214 -1.3199 -2.6486

.300 -.3297 -.7329 -.5962 -.7871 -1.6683

.450 -.2606 -.5347 -.5434 .5255 -1.2715

.600 -.1299 -.3146 -.3500 .3457 -.8439

.750 -.1603 -.0161 -.2190 -.1409 -.6037

.900 -.1708 -.0049 -.1633 -.0304 -.4106

DATE 08 OCT 74 TABULATED SOURCE DATA - 04578

(RDVW36)

0457-8 B10C5F1 J41 W07E10 WING TOTAL SURFACE
MACH (1) = .165 ALPHA (3) = 20.015 RW/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

	.0000	.0000	.5200	.6450	.8750
X/C					
-.900	.4718	.2478	.0378	-.0971	-.4423
-.790	.4835	.3906	.3684	-.0338	-.3575
-.600	.5329	.5825	.2957	.1939	-.0232
-.450	.4332	.5822	.4517	.2295	.1069
-.300	.5623	.5237	.2772	.2762	.2686
-.150	.5755	.5733	-.1541	-.0196	.4067
.150	-.3474	-1.5839	-.7532	-1.7199	-1.2145
.300	-.5701	-.9062	-.7518	-1.3522	-1.1820
.450	-.3848	-.7255	-.8700	-1.1257	-1.1590
.600	-.2332	-.5216	-.7178	-.9764	-1.0443
.750	-.2773	-.2696	-.5997	-.5771	-.8952
.900	-.2337	-.1295	-.4007	-.4503	-.6437

REFERENCE DATA

WREF = 4.4120 83.FT.

WREF = 19.2300 IN.

WREF = 37.9350 IN.

WREF = .0405

WREF = 43.5840 IN.

WREF = .0000 IN.

WREF = -.4050 IN.

WREF = .0405

PARAMETRIC DATA

BETA = .000

M/B = .125

ELEVON = .000

PTN/P = 1.300

BDFLAP = -18.000

ELEVON = .000

MACH (1) = .165

ALPHA (1) = -3.980

RV/L = 1.200

MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z1/E	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	-.1166	-.2925	-.2956	-.2315	-.2429
-.750	-.4183	-.3629	-.3552	-.4624	-.4657
-.600	-.5310	-.6411	-.4200	-.3242	-.4283
-.450	-.9128	-.5560	-.2620	-.3065	-.4485
-.300	-.7682	-.7735	-.3190	-.1223	-.3189
-.150	-.0273	-.4865	-.7368	-.4321	-.3948
.150	-.0628	-.1553	-.2913	-.3646	-.3334
.300	-.2050	-.2433	-.3617	-.3619	-.4675
.450	-.1141	-.2808	-.3783	-.3173	-.6857
.600	-.0101	-.1949	-.1519	-.2422	-.3253
.750	-.0609	-.0338	.1558	-.0450	-.1510
.900	-.1788	.0701	.0205	.0713	-.0312

MACH (1) = .65

ALPHA (2) = -.005

RV/L = 1.200

MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z1/E	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	-.0326	-.1578	-.1326	-.1379	-.1875
-.750	-.2978	-.2835	-.2382	-.3716	-.3984
-.600	-.2827	-.4348	-.2439	-.1576	-.3150
-.450	-.6082	-.2980	-.0999	-.1125	-.2858
-.300	-.3324	.3552	-.1589	.0980	-.1338
-.150	.1492	-.1202	-.3713	-.1159	-.0717
.150	-.1102	-.2618	-.4370	-.6066	-.5824
.300	-.2666	-.3253	-.4304	-.4875	-.5913
.450	-.1504	-.3246	-.3993	-.3682	-.7330
.600	-.0135	-.2023	-.2905	-.2580	-.3268
.750	-.0806	-.0471	-.1274	-.0354	-.1576
.900	-.1572	.0656	.0254	.0493	-.0155

(RCVW57)

CAS7-B B16CSF1 J41 W07E18 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (3) = 4.980 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0525 -.1107 -.0959 -.1436 -.2171
 -.750 -.1451 -.1595 -.1669 -.3351 -.3668
 -.600 -.0684 -.1984 -.1147 -.0203 -.2355
 -.450 -.3350 -.0519 .1101 .0712 -.1669
 -.300 -.0451 -.0479 .1395 .3219 .0056
 -.150 .2139 .1580 .0435 .1885 .1337
 .150 -.2417 -.5033 -.5806 -.8931 -.9703
 .300 -.3636 -.3322 -.5015 -.6276 -.7712
 .450 -.2136 -.4383 -.3941 -.4243 -.7865
 .600 -.450 -.2335 -.2305 -.2948 -.3937
 .750 -.0844 -.0697 -.1297 -.0753 -.1934
 .900 -.1565 .0651 -.0451 .0656 -.0597

MACH (1) = .165 ALPHA (2) = 9.995 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .1701 -.0217 -.0657 -.1723 -.2474
 -.750 .0124 -.0225 -.0777 -.2642 -.3160
 -.600 .0979 .0132 -.0631 .0969 -.1453
 -.450 -.1368 .1455 .2366 .1694 -.0423
 -.300 .1405 .1508 .3755 .4245 .1067
 -.150 .3454 .2889 .1399 .3478 .2780
 .150 -.2473 -.6833 -.6864 -1.1025 -1.3627
 .300 -.4064 -.3372 -.5797 -.7501 -.9404
 .450 -.2151 -.4485 -.4523 -.4934 -.8166
 .600 -.0658 -.2630 -.2216 -.3309 -.4780
 .750 -.1138 -.1159 -.1654 -.0869 -.2931
 .900 -.1585 .0176 -.0242 .0850 -.1511

MACH (1) = .165 ALPHA (3) = 15.020 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .2503 .0400 -.0367 -.1836 -.3021
 -.750 .1374 .1081 .0297 -.3236 -.2690
 -.600 .2159 .1728 .1246 .0583 -.0051
 -.450 -.0125 .2882 .2778 .1733 .0795
 -.300 .2148 .2590 .1454 .4144 .2201

DATE 08 OCT 74 TABULATED SOURCE DATA - CA37B

CA37B

B16C9F1 J41 WATE18 WING TOTAL SURFACE

MACH (1) = .185 ALPHA (5) = 15.020

SECTION (1) WING DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C
 -.150 .4260 .4856 -.1356 .2223 .3876
 .150 -.3164 -.11875 -.7556 -1.2417 -1.7927
 .300 -.4979 -.7242 -.6208 -.7653 -1.1396
 .450 -.2552 -.5454 -.5436 -.5017 -.9037
 .600 -.0988 -.3194 -.3626 -.3289 -.6975
 .750 -.1390 -.1394 -.2315 -.1226 -.5225
 .900 -.1630 .0103 -.1297 -.0336 -.3565

MACH (1) = .185 ALPHA (6) = 19.995 RV/L = 1.200 MACH = .185

SECTION (1) WING DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C
 -.900 .3394 .0514 -.1640 -.4660 -.3982
 -.750 .2156 .1721 .0017 -.3668 -.2567
 -.600 .3158 .1960 .1348 .1319 .0615
 -.450 .1174 .3916 .3518 .3283 .1533
 -.300 .3960 .3980 .3605 .5417 .3115
 -.150 .5068 .4834 .0825 .4372 .4499
 .150 -.3532 -1.5590 -.7611 -1.4350 -1.2864
 .300 -.5388 -.8839 -.7176 -1.3646 -1.1959
 .450 -.3470 -.6901 -.6176 -1.1183 -1.1592
 .600 -.1857 -.4511 -.6675 -.9637 -1.0873
 .750 -.2662 -.3145 -.0567 -.4637 -.6986
 .900 -.2412 -.1262 .3453 -.3543 -.6286

DATE 08 OCT 74

TABULATED SOURCE DATA - QAS7B

PAGE 321

QAS7-B 818C5F1 J41 W07E18 WING TOTAL SURFACE

(80VJ58) (12 NOV 73)

REFERENCE DATA

REF = 4 41.3 84. FT. WMP = 43.5940 IN.
 LEF = 18.2300 IN. WMP = .0700 IN.
 CAL = 27.9350 IN. WMP = -.4050 IN.
 SCALE = 0403

PARAMETRIC DATA

BETA = .000 PTN/P = 1.000
 H/B = .125 BOFLAP = -16.000
 ELEVON = .003

MACH (1) = .165 ALPHA (1) = -3.995 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.2025 -.1966 -.1991 -.1784 -.2145
 -.750 -.3546 -.3431 -.2572 -.3598 -.4273
 -.600 -.4136 -.4902 -.2977 -.2191 -.3618
 -.450 -.6757 -.6098 -.1901 -.2285 -.3930
 -.300 -.6436 -.6644 -.2335 -.0629 -.2694
 -.150 -.0546 -.3633 -.5632 -.3323 -.3074
 .000 -.0601 -.1469 -.2744 -.3501 -.3466
 .300 -.7043 -.2410 -.3560 -.3593 -.4651
 .450 -.1002 -.2700 -.3693 -.3064 -.5987
 .600 -.0046 -.1719 -.1693 -.2244 -.3271
 .750 -.0543 -.0468 -.1432 -.0392 -.1465
 .900 -.1686 .1046 .0277 .0821 -.0140

MACH (1) = .165 ALPHA (2) = -.605 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0700 .3340 .5200 .6630 .8730

X/C

-.900 -.1129 -.1406 -.1120 -.1348 -.1895
 -.750 -.2580 -.2447 -.1830 -.3271 -.3887
 -.600 -.2102 -.3694 -.1604 -.1105 -.3002
 -.450 -.4700 -.3074 -.0751 -.0843 -.2665
 -.300 -.2651 -.2904 -.1253 .1248 -.1217
 -.150 -.1572 -.0828 -.2860 -.0765 -.0366
 .000 -.1312 -.2633 -.4394 -.6001 -.6042
 .300 -.2802 -.3352 -.4412 -.4960 -.5988
 .450 -.1571 -.3237 -.6002 -.3681 -.7180
 .600 -.0169 -.2020 -.1972 -.2555 -.3316
 .750 -.0888 -.0777 -.1329 -.0443 -.1841
 .900 -.1624 .0817 .0132 .0462 -.0170

(RDWV58)

DATE 08 OCT 74 TABULATED SOURCE DATA - OA57B
 MACH (1) = .165 ALPHA (3) = 4.995 RN/L = 1.200 MACH = .165
 SECTION (1) WING

DEPENDENT VARIABLE CP

Z1/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	-.0113	-.0983	-.0916	-.1119	-.2031
-.750	-.1282	-.1449	-.1338	-.2778	-.3465
-.600	-.0246	-.2111	-.0566	.0472	-.2095
-.450	-.2338	-.0350	.1299	.0984	-.1334
-.300	-.0160	-.0099	.1728	.3451	.0154
-.150	.2622	.1699	-.0080	.2167	.1665
.000	-.2376	-.4962	-.5759	-.8717	-.9783
.150	.3766	-.5238	-.5043	-.219	-.7732
.300	-.2029	-.4286	-.3815	-.4168	-.7667
.450	-.0134	-.2229	-.2152	-.2793	-.3857
.600	-.0912	-.0819	-.1247	-.0691	-.2014
.750	-.1571	.0601	-.0466	.0724	-.0544
.900					



QAS7-B B16CSF1 J42 WATE18 WING TOTAL SURFACE (RDWJ39) (12 NOV 73)

REFERENCE DATA

SREF = 4.4120 99 FT WARP = 43.5940 IN.
 LREF = 10.2300 IN. WARP = .0000 IN.
 BREF = 37.9350 IN. WARP = -.4050 IN.
 S ALE = .0403

P. PARAMETERS DATA

BETA = .000 PTN/P = 1.50G
 H/B = .125 BDFLAP = -10.000
 ELEVON = .000

MACH (1) = .165 ALPHA (1) = -4.025 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

Y/C

-.900 -.2550 -.2060 -.2007 -.2298 -.2351
 -.750 -.3613 -.3383 -.4520 -.4820 -.4467
 -.600 -.4722 -.4535 -.4039 -.3916 -.4735
 -.450 -.8532 -.4736 -.3487 -.4498 -.4266
 -.300 -.7233 -.4260 -.4114 -.3516 -.2941
 -.150 -.0140 -.3982 -.5062 -.4558 -.3755
 .150 -.0645 -.1618 -.3307 -.5961 -.3604
 .300 -.2054 -.2301 -.6555 -.3967 -.4847
 .450 -.0185 -.4575 -.3370 -.3347 -.7213
 .600 -.0435 -.2176 -.2038 -.2397 -.3535
 .750 -.0497 -.1427 -.1069 -.0476 -.1251
 .900 -.1652 .0035 -.0306 .0753 -.0156

MACH (1) = .165 ALPHA (2) = -.010 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

Y/C

-.900 -.2634 -.1908 -.1367 -.1740 -.1928
 -.750 -.2936 -.2340 -.3604 -.3863 -.4017
 -.600 -.2822 -.2842 -.2377 -.2326 -.3537
 -.450 -.5997 -.2507 -.1438 -.2502 -.2821
 -.300 -.3425 -.1606 -.1483 -.1265 -.05
 -.150 .0999 -.1303 -.2345 -.1268 -.0576
 .150 -.1291 -.3263 -.6336 -.8253 -.6252
 .300 -.2709 -.3698 -.7545 -.5082 -.6161
 .450 -.0745 -.5143 -.4051 -.3681 -.7784
 .600 -.0703 -.2556 -.2372 -.2451 -.5626
 .750 -.0704 -.1484 -.1306 -.0555 -.1307
 .900 -.1499 -.0208 -.0503 .0666 -.0114

(R0VW59)

CA57-B B16C5F1 J42 WOTE18 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (3) = 4.955 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.900	-.2034	-.1169	-.0877	-.1099	-.2202
-.750	-.1530	-.1372	-.2275	-.2482	-.3657
-.600	-.1007	-.1072	-.0749	-.0735	-.2633
-.450	-.3753	-.0433	.0293	-.0575	-.1727
-.300	-.0866	.0423	.0727	.0511	-.0478
-.150	.1910	.0703	-.0556	.1103	.1163
.150	-.2379	-.5341	-1.0468	-1.1028	-1.0123
.300	-.3497	-.5107	-.9168	-.6665	-.7950
.450	-.1315	-.5880	-.5102	-.4285	-.7858
.600	-.1098	-.3123	-.3326	-.3013	-.4120
.750	-.1051	-.1927	-.2034	-.1207	-.1905
.900	-.1525	.0028	-.0875	-.0198	-.0628

MACH (1) = .165 ALPHA (4) = 9.955 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.900	-.0725	.0085	.0299	-.0240	-.2335
-.750	.0089	.0287	-.0332	-.1323	-.3116
-.600	.0604	.0654	.0949	.0933	-.1369
-.450	-.1621	.1393	.2026	.0915	-.0448
-.300	.1165	.2167	.2415	.2025	.0890
-.150	.2779	.2107	.1608	.2980	.2646
.150	-.3311	-.7489	-1.2065	-1.3419	-1.3501
.300	-.4380	-.6366	-1.0425	-.7907	-.9029
.450	-.1420	-.6892	-.5955	-.5540	-.6812
.600	-.1238	-.3652	-.3563	-.4089	-.4536
.750	-.0983	-.1798	-.1674	-.1092	-.3204
.900	-.1393	.0465	.0490	.0281	-.1694

MACH (1) = .165 ALPHA (5) = 14.980 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE C

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.900	.0383	.0501	.0228	-.0488	-.3692
-.750	.1108	.1080	.0255	-.0347	-.265
-.600	.1824	.1970	.1976	.1511	-.0636
-.450	-.0157	.2484	.3165	.1287	.0134
-.300	.2517	.1131	.3409	.3291	.1778

DATE 08 OCT 74 TABULATED SOURCE DATA - CA37B

CA37-B B16C5F1 J42 WOTE10 WING TOTAL SURFACE (RDW459)

MACH (1) = .165 ALPHA (5) = 14.980

SECTION (1) WING DEPENDENT VARIABLE CP

Z/P .0500 .5200 .6650 .8750

X/C	.0500	.5200	.6650	.8750
-.151	.3719	.3180	.3104	.3751
.150	-.4074	-.7801	-1.1689	-1.5250
.303	-.6208	-.6940	-1.1550	-.9984
.430	-.2629	-.7503	-.6936	-.7616
.600	-.1500	-.3789	-.4748	-.6542
.750	-.1299	-.2288	-.2487	-.2075
.900	-.1419	-.0202	-.0298	-.1125

MACH (1) = .165 ALPHA (6) = 19.975 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/P .0000 .3340 .5200 .6650 .8750

X/C	.0000	.3340	.5200	.6650	.8750
-.900	.0966	.0654	.0242	-.0577	-.4689
-.750	.2037	.1973	.1133	-.0143	-.3154
-.600	.2841	.2873	.2730	.2016	-.0705
-.450	.0997	.3351	.4031	.2368	.0882
-.300	.3620	.3959	.4222	.3920	.2126
-.150	.4556	.3899	.4229	.3971	.3104
.150	-.4603	-.8507	-.9538	-2.0929	-1.7237
.300	-.6937	-.6538	-1.3290	-1.6983	-1.5436
.450	-.3826	-.7732	-.9670	-1.3718	-1.4965
.600	-.2377	-.4168	-.8028	-1.2670	-1.4013
.750	-.1544	-.2590	-.2833	-.6360	-1.1607
.900	-.1534	-.1248	-.0711	-.5224	-.8077

DATE 08 OCT 74 TABULATED SOURCE DATA - CA37B

CA37-B B16C5F1 J42 W8TE16 WING TOTAL SURFACE (RDVW60) (12 NOV 73)

REFERENCE DATA

SREF = 4.4120 83.FT. XMRP = 43.5940 IN.
LREF = 19.2300 IN. PMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.300
M/B = .125 BDFLAP = -16.000
ELEVOR = .000

MACH (1) = .165 ALPHA (1) = -4.010 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/PB .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.2497 -.2020 -.1754 -.2200 -.2257
-.750 -.3274 -.3042 -.4392 -.4553 -.4350
-.600 -.4224 -.4070 -.3577 -.3550 -.4531
-.450 -.7536 -.4326 -.3114 -.4326 -.4090
-.300 -.6763 -.3827 -.3845 -.3299 -.2816
-.150 -.0236 -.3589 -.4650 -.4186 -.3432
.150 -.0554 -.1324 -.2933 -.5099 -.3384
.300 -.1887 -.1963 -.5799 -.4020 -.4660
.450 -.0370 -.4078 -.2899 -.2976 -.7159
.600 -.0354 -.1866 -.1690 -.2038 -.3351
.750 -.0484 -.1173 -.0914 -.0408 -.1079
.900 -.1331 .0145 -.0128 .0827 -.0056

MACH (1) = .165 ALPHA (2) = -.010 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/PB .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.2463 -.1933 -.1279 -.1692 -.1895
-.750 -.2583 -.2341 -.3463 -.3612 -.3959
-.600 -.2336 -.2429 -.2176 -.2093 -.3506
-.450 -.5228 -.2177 -.1183 -.2418 -.2695
-.300 -.3165 -.1359 -.1231 -.1115 -.1238
-.150 .1091 -.1040 -.2096 -.1071 -.0425
.150 -.1536 -.2954 -.5828 -.7409 -.6052
.300 -.2812 -.3366 -.6583 -.4803 -.5961
.450 -.0932 -.4563 -.3592 -.3347 -.7700
.600 -.0477 -.2238 -.2078 -.2222 -.3498
.750 -.0523 -.1313 -.1156 -.0620 -.1238
.900 -.1422 -.0120 -.0291 .0593 -.0056



CA57-B B16CSF1 J42 WOTE10 WING TOTAL SURFACE (RDW460)

MACH (1) = .165 ALPHA (3) = 4.965 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/r/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.1792 -.1108 -.0840 -.1087 -.2122
 -.750 -.1195 -.0996 -.2165 -.2449 -.3555
 -.600 -.0561 -.0829 -.0560 -.0544 -.2562
 -.450 -.3047 -.0160 .0534 -.0519 -.1581
 -.300 -.0607 .0737 .0931 .0674 -.0347
 -.150 .2009 .0906 -.0311 .1262 .1263
 .150 -.2528 -.4920 -.9659 -1.0104 -.9688
 .300 -.3496 -.4590 -.8127 -.5995 -.7568
 .450 -.1431 -.5219 -.4482 -.3877 -.7571
 .600 -.0808 -.2689 -.2777 -.2731 -.3927
 .750 -.0628 -.1559 -.1575 -.1198 -.1760
 .900 -.1420 .0039 -.0328 -.0424 -.0486

MACH (1) = .165 ALPHA (4) = 9.960 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/r/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.0556 -.0221 -.0250 -.0519 -.2319
 -.750 .0079 .0220 -.0699 -.1319 -.3068
 -.600 .0834 .0775 .0908 .0834 -.1588
 -.450 -.1308 .1320 .1925 .0630 -.0495
 -.300 .1047 .2177 .2367 .2016 .0873
 -.150 .2829 .2187 .1654 .2907 .2503
 .150 -.2914 -.7019 -1.1290 -1.2515 -1.3090
 .300 -.4531 -.6047 -.9357 -.7210 -.8452
 .450 -.1732 -.6573 -.5479 -.5118 -.6346
 .600 -.1214 .3310 .3184 .3549 .4574
 .750 -.1322 -.1877 -.1709 -.0594 -.2993
 .900 -.1532 .0196 -.0118 .0275 -.1628

MACH (1) = .165 ALPHA (5) = 14.960 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/r/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0489 .0458 .0024 -.0722 -.3214
 -.750 .1287 .1250 .0212 -.0608 -.3140
 -.600 .1972 .1861 .1774 .1402 -.0561
 -.450 .0090 .2506 .3141 .1075 .0065
 -.300 .2519 .3216 .3366 .3191 .1679

CA37-B B16CSF1 J42 W07E18 WING TOTAL SURFACE (RDVVW60)

MACH (1) = .165 ALPHA (5) = 14.960

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C

-.150 .3631 .3037 .2937 .3562 .3175
 .150 -.3718 -.7929 -1.1692 -1.4170 -2.6341
 .300 -.5542 -.8459 -1.0351 -.8687 -1.8729
 .450 -.2347 -.7015 -.6491 -.6701 -1.4142
 .600 -.1684 -.4017 -.4874 -.5732 -1.3280
 .750 -.1303 -.2303 -.2530 -.2368 -.6986
 .900 -.1601 -.0499 -.0440 -.1704 -.3956

MACH (1) = .165 ALPHA (6) = 19.965 RV/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .1002 .0764 -.0166 -.0877 -.4246
 -.750 .2106 .1690 .0839 -.0338 -.3193
 -.600 .3011 .2826 .2556 .1861 -.0212
 -.450 .1245 .3465 .4073 .2262 .0826
 -.300 .3678 .4069 .4213 .3917 .2124
 -.150 .4640 .3937 .4262 .4173 .3214
 .150 -.430 -.8701 -.9622 -2.0847 -1.4249
 .300 -.321 -.6438 -1.2483 -1.6222 -1.3408
 .450 .3377 .7640 .9675 -1.2767 -1.2904
 .600 -.2467 -.4545 -.7781 -1.0124 -1.1220
 .750 -.1970 -.3051 -.3112 -.6792 -.8828
 .900 -.1778 -.1545 -.1142 -.5453 -.6536

REFERENCE DATA

SREF = 4.4120 92.FT. XMAP = 43.5940 IN.
 LREF = 19.2300 IN. YMAP = .0000 IN.
 SCALE = 0.0405 ZMAP = -.4050 IN.

PARAMETRIC DATA

BETA = .000 PTN/P = 1.000
 H/B = .125 BDFLAP = -18.000
 ELEVON = .000

MACH (1) = .165 ALPHA (1) = -4.050 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.2609 -.3164 -.1778 -.2238 -.2276
 -.750 -.3334 -.2631 -.4535 -.4456 -.4285
 -.600 -.3669 -.3735 -.3610 -.3463 -.4568
 -.450 -.5892 -.4200 -.2991 -.4350 -.3964
 -.300 -.6061 -.3253 -.3641 -.3087 -.2743
 -.150 -.0365 -.3176 -.4409 -.4037 -.3322
 .150 -.0457 -.1109 -.2645 -.4727 -.3420
 .300 -.1817 -.1658 -.4609 -.3457 -.4570
 .450 -.0194 -.3433 -.2552 -.2676 -.7286
 .600 -.0241 -.1716 -.1602 -.1959 -.3468
 .750 -.0591 -.1221 -.1015 -.0473 -.1053
 .900 -.1578 -.0112 -.0387 .0769 .0060

MACH (1) = .165 ALPHA (2) = -.025 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.2647 -.3598 -.1544 -.1855 -.2022
 -.750 -.2621 -.1978 -.3532 -.3654 -.3999
 -.600 -.2003 -.2351 -.2228 -.2079 -.3646
 -.450 -.4345 -.2190 -.1094 -.2527 -.2752
 -.300 -.2942 -.1042 -.1180 -.1096 -.1300
 -.150 -.1116 -.0900 -.2045 -.1775 -.0468
 .150 -.1461 -.2699 -.5259 -.6748 -.5928
 .300 -.2698 -.2978 -.5478 -.4192 -.5814
 .450 -.0805 -.3613 -.3124 -.2954 -.7817
 .600 -.0471 -.2022 -.1958 -.2180 -.3508
 .750 -.0755 -.1333 -.1184 -.0472 -.1266
 .900 -.1518 -.0415 -.0504 -.0368 -.0123

CA57-B B16C5F1 J42 W07E18 WING TOTAL SURFACE (RDVW61)

MACH (1) = .165 ALPHA (1) = 4.980 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.1982 -.3432 -.1078 -.1207 -.2089
 -.750 -.1275 -.0791 -.2160 -.2532 -.3560
 -.600 -.0237 -.0699 -.0453 -.0461 -.2643
 -.450 -.2353 -.0192 .0399 -.0614 -.1569
 -.300 -.0529 .0895 .0999 .0768 -.0322
 -.150 .2105 .1078 .0076 .1325 .1253
 .150 .2211 .4641 -.0638 -.9164 -.9399
 .300 .3417 -.4148 .6810 -.5153 -.7209
 .450 .1195 .4424 .4017 .3535 .7462
 .600 -.0755 -.2276 .2298 .2532 .3784
 .750 -.0907 .1522 .1299 .1350 .1707
 .900 -.1560 -.0415 -.0427 -.0911 -.0439

MACH (1) = .165 ALPHA (4) = 9.965 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.0835 -.2328 -.0700 -.0986 -.2321
 -.750 .0026 .0396 -.1024 -.1716 -.3269
 -.600 .1019 .0621 .0628 .0621 -.1726
 -.450 -.0731 .1318 .1952 .0366 -.0616
 -.300 .1172 .2249 .2259 .1885 .0657
 -.150 .2876 .2162 .1549 .2756 .2417
 .150 -.2728 -.6674 -1.0773 -1.1608 -1.2160
 .300 -.4252 -.5277 -.8086 -.6425 -.7985
 .450 .1536 .5560 .4741 .4206 .5980
 .600 .1194 .5249 .3188 .3424 .4532
 .750 .1421 .1936 .1958 .1868 .3074
 .900 .1698 .0055 .0742 .1375 .1513

MACH (1) = .165 ALPHA (5) = 14.965 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0070 .0070 -.2894 -.0535 -.1238 -.3196
 -.750 .1008 .1168 -.0217 -.0924 -.32
 -.600 .2036 .1815 .1580 .1220 .0771
 -.450 .0510 .2481 .3117 .0858 .0006
 -.300 .2474 .3163 .3260 .3044 .1678

CA37-B 816CSF1 J42 WASTE18 WING TOTAL SURFACE

(RDYMS1)

MACH (1) = .165 ALPHA (5) = 14.965

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .0000 .0000 .0200 .0630 .0730

X/C

-.150 .3008 .3093 .2942 .3557 .3215
 .150 -.3334 -.7368 -1.0930 -1.2949 -2.5650
 .300 -.3162 -.6199 -.9002 -.7008 -1.6360
 .450 -.2107 -.6318 -.6120 -.5665 -1.2415
 .600 -.1708 -.3463 -.4635 -.5034 -1.1917
 .750 -.1865 -.2618 .3141 -.3411 -.6144
 .900 -.1929 -.0716 -.1108 -.3039 -.4026

MACH (1) = .165 ALPHA (6) = 19.970 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

X/C .0000 .3340 .5200 .6630 .6730

X/C

-.900 .0468 -.3679 -.0841 -.1507 -.3613
 -.750 .1817 .1706 .0362 -.0693 -.3333
 -.600 .2884 .2634 .2316 .1709 -.0347
 -.450 .1460 .3360 .3950 .1819 .0603
 -.300 .3616 .3990 .4057 .3794 .2007
 -.150 .4572 .3897 .4196 .4246 .3307
 .150 -.4110 -.7978 -.6557 -1.7325 -1.0736
 .300 -.5828 -.5938 -1.1130 -1.2495 -1.0092
 .450 -.3075 -.7125 -.8175 -.9462 -.9257
 .600 -.2733 -.5006 -.6625 -.8447 -.7235
 .750 -.2406 -.3893 -.4557 -.5720 -.6325
 .900 -.2334 -.2060 -.2237 -.4934 -.5132

(RDW462) (12 NOV 75)

CASHS-B 818C5F1 J42 W07E10 WING TOTAL SURFACE

REFERENCE DATA

REF = 4.4120 93.FT. XMRP = 43.3840 IN.
 LREF = 10.2300 IN. YMRP = .0000 IN.
 RREF = 37.9330 IN. ZMRP = -.4030 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.500
 H/B = .039 BDFLAP = -10.000
 ELEVON = .000

MACH (1) = .165 ALPHA (1) = 10.000 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .4337 .0657 .0485 -.0118 -.3481
 -.750 .3039 .2311 .0853 -.0984 -.4433
 -.600 .2893 .3200 .2332 .1080 -.2430
 -.450 .1169 .3170 .2866 .1097 -.2079
 -.300 .3374 .3235 .3092 .2427 -.0503
 -.150 .3640 .3082 .2534 .2899 .1528
 .150 -.2857 -.7853 -1.2551 -1.4311 -1.4079
 .300 -.4449 -.7070 -1.0813 -.8641 -.9322
 .450 -.1560 -.7124 -.6129 -.6292 -.7093
 .600 -.1616 -.3805 -.3816 -.4574 -.5935
 .750 -.1734 -.2094 -.1859 -.0856 -.4101
 .900 -.1554 .0323 .0320 .0042 -.2395

MACH (1) = .165 ALPHA (2) = 14.080 RN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.2242 -.4364 .5690 -.0310 .1130
 -.750 -.1389 .5118 .3868 12.2764 11.9650
 -.600 .4120 .4122 .4346 .3517 .2178
 -.450 .3408 .0579 .2567 .4278 .4050
 -.300 .2383 .4288 .4347 16.5158 10.2923
 -.150 .4530 .4548 .4112 .4154 .3483
 .150 -.3303 -.3343 -.8503 -1.2030 -1.6995
 .300 -1.8644 -.5099 -.7270 -6.5174 -10.5136
 .450 -1.0172 -1.6814 -.2022 -.7517 -.7257
 .600 -.1683 -.1710 -.3822 -.5689 -.9000
 .750 -1.5188 -.1387 -.2085270.0000 -12.9145
 .900 -.3329 -1.0093 -.1544 -.0286 -.0196

DATE 08 OCT 74 TABULATED SOURCE DATA - CAS7B

(RDW002)

MACH (1) = .163 ALPHA (3) = 19.995 CAS7-B B16C5F1 J42 WATE18 WING TOTAL SURFACE
 RN/L = 1.200 MACH = .163

SECTION (1) WING DEPENDENT VARIABLE CP

Y/C X/C

-.900	.7396	-.1644	.1702	.0491	-.5227
-.750	.5948	-.4687	.3477	.0337	-.3927
-.600	.4833	.3065	.4042	.2844	-.0194
-.450	.3392	.3102	.4901	.2962	.0191
-.300	.5148	.3102	.4924	-.086	.0269
-.150	.3283	.4733	.5224	.3253	.2309
.150	-.3911	-.9003	-.9062	-2.6173	-1.7908
.300	-.5963	-.6404	-1.3711	-1.6410	-1.6426
.450	-.2343	-.7524	-1.0409	-1.6032	-1.3753
.600	-.2368	-.4036	-.7803	-1.4297	-1.5269
.750	-.1666	-.2609	-.2306	-.6707	-1.3249
.900	-.1283	-.1176	-.0376	-.5041	-.8710

DATE 08 OCT 74 TABULATED SOURCE DATA - CAS78

CAS7-P B18C3F1 J42 W0TE18 WING TOTAL SURFACE (RDVW03) (12 NOV 73)

REFERENCE DATA

REF = 4.4120 33.57. XMRP = 43.3840 IN.
LREF = 19.2300 IN. YMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0403

PARAMETRIC DATA

BETA = .000 PTN/P = 1.300
M/B = .039 BOFLAP = -18.000
ELEVON = .000

MACH (1) = .165 ALPHA (1) = 9.995 RW/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B	0000	3340	5200	6630	8730
X/C					
-900	.2259	.0612	.0231	-.0370	-3.64
-750	.2764	.2167	.0680	-.1113	-.4276
-600	.3518	.3112	.2346	.1145	-.2328
-450	.4379	.3147	.2859	.1079	-1943
-300	.3470	.3366	.3132	.2446	-.0442
-150	.3760	.3166	.2670	.3033	.1665
0	-.2675	-.7441	-1.1752	-1.293	-1.3055
150	-.4273	-.6532	-.9646	-.7325	-.8714
300	-.1129	-.6590	-.5708	-.5431	-.6790
450	-.1469	-.3479	-.3465	-.4173	-.5482
600	-.1736	-.1968	-.1887	-.0678	-.3702
750	-.1645	.0229	.0032	-.0176	-.1797

MACH (1) = .165 ALPHA (2) = 14.985 RW/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B	0000	3340	5200	6630	8730
X/C					
-900	.4094	-.0731	.0682	-.0251	-.4265
-750	.4651	.3582	.2229	-.0307	-.4382
-600	.4205	.4162	.3310	.2106	-.1365
-450	.2878	.4272	.3989	.2176	-.0597
-300	.4327	.4379	.4148	.3403	.0327
-150	.4530	.4289	.4136	.3455	.247
0	-.3312	-.8374	-1.1388	-1.6034	-1.7537
150	-.5262	-.6803	-.5107	-.9084	-1.5172
300	-.0917	-.7220	-.7265	-.8245	-1.5372
450	-.1807	-.4069	-.2697	-.7198	-1.3537
600	-.1820	-.2476	-.2174	-.3116	-.8282
750	-.1801	-.0615	-.0275	-.3151	-.487

DATE 08 OCT 74 TABULATED SOURCE DATA - CA37B

(RDVW63)

MACH (1) = .165 ALPHA (3) = 20.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

2170	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	.6065	-.1921	.0867	-.0127	-.4562
-.750	.5622	.4337	.3034	.0127	-.3753
-.600	.4956	.4904	.3613	.2670	-.0592
-.450	.3661	.5019	.4711	.2794	.0273
-.300	.5107	.5093	.4865	.4072	.0415
-.150	.5243	.4707	.5217	.3648	.2486
.150	-.3991	-.9032	-.9612	2.4687	-1.4753
.300	-.5972	-.6570	-1.3491	-1.7796	-1.4213
.450	-.1934	-.7930	-1.0629	-1.3911	-1.3686
.600	-.2554	-.4878	-.8147	-1.1120	-1.1872
.750	-.2065	-.3361	-.5267	-.7633	-.9610
.900	-.1832	-.1749	-.1671	-.5296	-.7233

CA37-B B16C5F1 J42 WOTE18 WING TOTAL SURFACE

(RDVVW64) (12 NOV 73)

REFERENCE DATA

QREF = 4.4120 BA.FT. QMRP = 43.5940 IN.
LREF = 19.2300 IN. LMRP = .0000 IN.
BREF = 37.9330 IN. BMRP = -.4050 IN.
SCALE = .0403

MACH (1) = .165 ALPHA (1) = 10.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE (CF

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0629 .0500 -.0156 -.0795 -.2796
-.750 .1354 .1637 .0303 -.1233 -.3862
-.600 .3111 .2729 .2162 .1134 -.2182
-.450 .1831 .3054 .2754 .0878 -.1980
-.300 .602 .3353 .3047 .2445 -.0293
-.150 .3783 .3176 .2893 .3137 .1851
.150 -.2754 -.7102 -1.0866 -1.1497 -1.1484
.300 -.4083 -.5845 -.8265 -.6118 -.7678
.450 -.0525 -.3650 -.4967 -.4599 -.6783
.600 -.1589 -.3397 -.3322 -.3713 -.5664
.750 -.1773 -.1928 -.2122 -.2154 -.3137
.900 -.1688 .0154 -.0525 -.1890 -.1713

MACH (1) = .165 ALPHA (2) = 15.010 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE (CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .2175 -.0887 .0093 -.0749 -.3800
-.750 .3482 .2999 .1674 -.0513 -.3986
-.600 .4374 .3800 .3145 .2039 -.1367
-.450 .3222 .4152 .5833 .2034 -.0374
-.300 .4414 .4332 .4783 .3435 .0773
-.150 .4602 .4119 .4148 .3534 .2518
.150 -.3217 -.7967 -1.0639 -1.4716 -1.4216
.300 -.4876 -.6435 -.9596 -.7696 -1.3729
.450 -.0397 -.6544 -.6830 -.7233 -1.2278
.600 -.1842 -.4118 -.5184 -.6564 -1.1221
.750 -.2041 -.2879 -.3454 .4563 -.7614
.900 -.2047 -.0909 -.1185 -.3962 -.5387

PARAMETRIC DATA

BETA = .000 PTN/P = 1.000
H/B = .039 BD/FLAP = -18.000
ELEVON = .000

(RDVW64)

QAS7-B B16C5F1 J42 W87E18 WING TOTAL SURFACE

MACH (1) = .185 ALPHA (3) = 19.990 RN/L = 1.200 MACH = .185

SECTION (1) WING

DEPENDENT VARIABLE CP

Z 1.0 .5000 .3500 .5200 .6630 .8730

X/C

-.900	.3480	-.2022	-.0031	-.1007	-.4177
-.750	.4722	.3784	.2469	-.0213	-.4019
-.600	.5143	.4314	.3618	.2533	-.0969
-.450	.4118	.4901	.4606	.2629	.0193
-.300	.5209	.5106	.4822	.4033	.0590
-.150	.5905	.4808	.5247	.4061	.2457
.150	-.3749	-.8335	-.8430	-1.7095	-1.0370
.300	-.5458	-.5934	-1.1353	-1.3355	-1.0092
.450	-.1140	-.7432	-.8642	-.9713	-.5143
.600	-.2845	-.5582	-.7112	-.8722	-.7738
.750	-.2548	-.4589	-.5363	-.6541	-.7049
.900	-.2841	-.2473	-.2957	-.6119	-.6341

REFERENCE DATA

MAEF = 4.4120 SQ.FT.

WHP = 43.9940 IN.

LREF = 19.2300 IN.

WHP = .0000 IN.

DRF = 37.9350 IN.

WHP = -.4050 IN.

SCALE = .0405

PARAMETRIC DATA

BETA = .000

PTN/P = 1.500

M/B = .125

ROFLAP = -18.000

ELEVON = .000

MACH (1) = .165

ALPHA (1) = -3.950

AN/L = 1.200

MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z1/B	.0000	.3340	.5200	.6630	.8730
------	-------	-------	-------	-------	-------

X/C

-.900	-.2534	-.1414	-.1641	-.2270	-.2257
-.750	.3471	-.3220	-.4428	-.4606	-.4185
-.600	-.4702	-.4277	-.3657	-.3657	-.4467
-.450	-.8336	-.4592	-.3714	-.4816	-.3984
-.300	-.6996	-.3928	-.3985	-.3316	-.2806
-.150	.0146	-.3869	-.4933	-.4322	-.3543
.000	-.0638	-.1596	-.3395	-.5119	-.3388
.150	-.1838	-.2192	-.6402	-.3965	-.4708
.300	.0056	-.4361	-.3188	-.3222	-.7131
.450	-.0583	-.2082	-.1863	-.2188	-.3291
.600	-.0293	-.1195	-.0960	-.0390	-.1119
.750	-.1481	.0174	-.0135	.0870	-.0079

MACH (1) = .165

ALPHA (2) = -.015

AN/L = 1.200

MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z1/B	.0000	.3340	.5200	.6630	.8730
------	-------	-------	-------	-------	-------

X/C

-.900	-.2847	-.1427	-.1358	-.1650	-.1878
-.750	-.3044	-.2498	-.3557	-.3615	-.3623
-.600	-.2735	-.2539	-.2272	-.2169	-.3204
-.450	-.6060	-.2595	-.1697	-.2827	-.2530
-.300	-.3289	-.1230	-.1416	-.1124	-.1156
-.150	.0994	-.1140	-.2265	-.1143	-.0493
.000	-.1162	-.3131	-.6175	-.7248	-.6137
.150	-.2518	-.3629	-.7361	-.5207	-.6127
.300	-.0511	-.5143	-.3965	-.3543	-.7741
.450	-.0669	-.2458	-.2271	-.2367	-.3524
.600	-.0576	-.1369	-.1255	-.0495	-.1282
.750	-.1511	-.0249	-.0421	.0691	-.0037

(RDWNGS)

DATE 08 OCT 74 TABULATED SOURCE DATA - QAS7B
 QAS7-B B16C5F1 J42 WATE18 WING TOTAL SURFACE
 MACH (1) = .165 ALPHA (3) = 5.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C
 -.900 -.2208 -.0467 -.0937 -.1150 -.2214
 -.750 -.1636 -.1446 -.2375 -.2652 -.3313
 -.600 -.0788 -.0777 -.0688 -.0676 -.2291
 -.450 -.3568 -.0413 .0097 -.1056 -.1325
 -.300 -.0746 -.0755 .0777 .0611 .0030
 -.150 .1945 .0821 -.0484 .1222 .1197
 .000 -.1929 -.5212 -1.0260 -1.0018 -1.0036
 .300 -.3461 -.5127 -.6986 -.6500 -.7808
 .450 -.0936 -.5755 -.5019 -.4136 -.7714
 .600 -.1184 -.3066 -.3155 -.2919 -.4025
 .750 -.1225 -.1837 -.1913 -.1222 -.1834
 .900 -.1415 -.0064 -.0895 -.0330 -.0623

MACH (1) = .165 ALPHA (4) = 9.990 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C
 -.900 -.1141 .0013 .0070 -.0417 -.2413
 -.750 -.0123 .0007 -.0740 -.1198 -.2794
 -.600 .0720 .0948 .0876 .0727 -.1353
 -.450 -.1585 .1428 .1796 .0084 -.0455
 -.300 .1132 .2284 .2324 .2087 .0811
 -.150 .2828 .2189 .1590 .3029 .2350
 .000 -.2673 -.7397 -1.2062 -1.2388 -1.3606
 .300 -.4272 -.6552 -1.0251 -.7462 -.8876
 .450 -.1106 -.6835 -.6006 -.5651 -.6713
 .600 -.1539 -.3568 -.3543 -.4059 -.4634
 .750 -.1527 -.1935 -.1694 -.0933 -.3217
 .900 -.1339 .0400 .0342 .0291 -.1688

MACH (1) = .165 ALPHA (5) = 14.995 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C
 -.900 .0288 -.0194 .0136 -.0550 -.3642
 -.750 .1039 .1007 .0208 -.0439 -.2806
 -.600 .1899 .2193 .1699 .1777 -.0736
 -.450 -.0064 .2659 .3007 .1151 .0157
 -.300 .2496 .3367 .3414 .1111 .1563

(RDVW65)

CM37-B B18C5F1 J42 WATE18 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (5) = 14.985

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.150 .3755 .3175 .3078 .3829 .3288
-.150 -.3240 -.7787 -1.2230 -1.5171 -2.1047
.300 -.4984 -.7047 -1.1251 -.8691 -1.7406
.450 -.1032 -.7245 -.6766 -.7472 -1.4589
.600 -.1677 -.3959 -.4907 -.6371 -1.2347
.750 -.1496 -.2394 -.2452 -.2064 -.7846
.900 -.1508 -.0279 -.0295 -.1332 -.4445

MACH (1) = .165 ALPHA (6) = 19.975 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0897 -.1078 .0278 -.0488 -.4631
-.750 .2003 .1961 .1111 -.0154 -.2735
-.600 .2870 .2988 .2730 .2081 -.0288
-.450 .1037 .3586 .3979 .2346 .0920
-.300 .3650 .4136 .4221 .3975 .1424
-.150 .4601 .3944 .4310 .4113 .3164
.150 -.3872 -.8748 -.9783 -2.1179 -1.6403
.300 -.5833 -.6720 -1.3204 -1.4916 -1.4761
.450 -.1660 -.7524 -.9425 -1.3615 -1.4896
.600 -.2248 -.4398 -.8014 -1.2495 -1.3563
.750 -.1569 -.2741 -.3025 -.6504 -1.1238
.900 -.1472 -.1069 -.0715 -.5529 -.7556



REFERENCE DATA

WREF = 4.4120 84. FT. WMRP = 43.5940 IN.
LREF = 19.2300 IN. LMRP = .0000 IN.
WALP = 37.8350 IN. WMRP = -.4050 IN.
SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.300
H/B = .125 BOFLAP = -18.00C
ELEVON = .000

MACH (1) = .165 ALPHA (1) = -4.005 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	-.2651	-.1393	-.1784	-.2233	-.2319
-.750	-.3491	-.3209	-.4483	-.4510	-.4148
-.600	-.4032	-.3961	-.3849	-.3481	-.4418
-.450	-.7153	-.4373	-.3396	-.3244	-.3974
-.300	-.6433	-.3268	-.3730	-.3118	-.2778
-.150	-.0259	-.3436	-.4634	-.4108	-.3401
.150	-.0506	-.1393	-.2916	-.4548	-.3336
.300	-.1834	-.1973	-.5557	-.3665	-.4577
.450	.0109	-.3982	-.2902	-.2966	-.7549
.600	-.0439	-.1663	-.1701	-.2009	-.3301
.750	-.0441	-.1060	-.0921	-.0423	-.1061
.900	-.1478	.0182	-.0121	.0794	-.0116

MACH (1) = .165 ALPHA (2) = -.005 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	-.2660	-.1643	-.1339	-.1609	-.1963
-.750	-.2727	-.2530	-.3526	-.3567	-.3535
-.600	-.2134	-.2241	-.2280	-.1991	-.3201
-.450	-.5083	-.2209	-.1488	-.3270	-.2552
-.300	-.3029	-.0908	-.1185	-.0985	-.1056
-.150	.1126	-.0909	-.2059	-.0997	-.0439
.150	-.1033	-.2971	-.5904	-.6639	-.6033
.300	-.2508	-.3429	-.6556	-.4693	-.5877
.450	-.0363	-.4534	-.3559	-.3302	-.8035
.600	-.0734	-.2212	-.2080	-.2214	-.3527
.750	-.0703	-.1199	-.1134	-.0560	-.1240
.900	-.1460	-.0129	-.0275	.0488	-.0105

(RDW66)

CA37-B 816C3F1 J42 W8TE18 WING TOTAL SURFACE
 MACH (1) = .165 ALPHA (5) = 4.985 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.2011 -.0904 -.0616 -.1116 -.2188
 -.750 -.1261 -.1426 -.2332 -.2585 -.3290
 -.600 -.0395 -.0611 -.0653 -.0561 -.2267
 -.450 -.2909 -.0172 .0254 -.1494 -.1465
 -.300 -.0518 .0986 .0920 .0759 .0020
 -.150 .2019 .0952 -.0306 .1316 .1230
 .150 -.1871 -.4961 -.9852 -.92 - .9701
 .300 -.3353 -.4711 -.7993 -.59 - .7438
 .450 -.0820 -.5190 -.4482 -.5786 -.7737
 .600 -.1118 -.2704 -.2778 -.2754 -.3495
 .750 -.1254 -.1518 -.1593 -.1294 -.1775
 .900 -.1428 .0020 -.0523 -.0468 -.0549

MACH (1) = .165 ALPHA (4) = 9.980 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.0907 .0026 -.0134 -.0495 -.2296
 -.750 .0139 .0038 -.0819 -.1305 -.2852
 -.600 .0996 .0931 .0782 .0527 -.1406
 -.450 -.1167 .1480 .1877 -.0176 -.0470
 -.300 .1226 .2388 .2347 .2065 .0693
 -.150 .2860 .2221 .1612 .2965 .2490
 .150 -.2365 -.7175 -1.1518 -1.1641 -1.2907
 .300 -.4094 -.6126 -.9255 -.6965 -.8400
 .450 -.1019 -.6302 -.5247 -.4987 -.6563
 .600 -.1445 -.3359 -.3274 -.3613 -.4539
 .750 -.1352 -.1783 -.1724 -.0581 -.3016
 .900 -.1475 .0300 .0031 .0286 -.1576

MACH (1) = .165 ALPHA (5) = 14.980 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0466 -.0365 .0139 -.0561 -.2989
 -.750 .1313 .1066 .0194 -.0346 -.2620
 -.600 .2134 .2166 .1869 .1437 -.0578
 -.450 .0241 .2682 .3071 .1267 .0231
 -.300 .2595 .3414 .3404 .3336 .1496

DATE 08 OCT 74 TABULATED SOURCE DATA - QAS7B

(ROWS)

QAS7-B B16C5F1 J42 WATE18 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (5) = 14.980

SECTION (1) WING DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6430 .8730

X/C
 -.150 .3798 .3210 .3123 .3787 .3266
 .150 -.3147 -.7818 -1.1480 -1.4213 -2.6327
 .300 -.4738 -.8587 -1.1168 -.7861 -1.8554
 .450 -.0988 -.8775 -.6328 -.6421 -1.3486
 .600 -.1608 -.3753 -.4657 -.5526 -1.2974
 .750 -.1444 -.2293 -.2443 -.2373 -.6831
 .900 -.1643 -.0361 -.0234 -.1598 -.3639

MACH (1) = .165 ALPHA (6) = 18.995 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C
 -.900 .0881 -.1543 -.0098 -.0758 -.4123
 -.750 .2076 .1771 .0847 -.0272 -.2738
 -.600 .3062 .2868 .2607 .1970 -.0310
 -.450 .1293 .3590 .3963 .2158 .0914
 -.300 .3712 .4175 .4195 .3926 .1553
 -.150 .4671 .4014 .4339 .4235 .3224
 .150 -.3672 -.8448 -.9622 -1.9977 -1.4142
 .300 -.5782 -.6837 -1.2434 -1.4617 -1.3152
 .450 -.1718 -.7503 -.9692 -1.2473 -1.2770
 .600 -.2153 -.4513 -.7752 -1.0094 -1.1174
 .750 -.1749 -.3236 -.3196 -.6925 -.8616
 .900 -.1803 -.1474 -.1316 -.5388 -.6299

(RDYV67) (12 NOV 73)

CA37-B B16C3F1 J42 W8TE18 WING TOTAL SURFACE

PARAMETRIC DATA

GEPA = .000 PTN/P = 1.000
H/B = .125 BDFLAP = -18.000
ELEVON = .000

REFERENCE DATA

MAEF = 11.4120 83.FT. XMRP = 43.5940 IN.
LREF = 19.2300 IN. PMRP = .0000 IN.
BREF = 37.9350 IN. ZMRP = -.4050 IN.
SCALE = .0405

MACH (1) = .165 ALPHA (1) = -4.010 RN/L = 1.200 MACH = .165

DEFICIENT VARIABLE CP

SECTION (1) WING

Z/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	-.2928	-.1677	-.1757	-.2215	-.2288
-.750	-.3458	-.3121	-.4372	-.4427	-.4130
-.600	-.3547	-.3689	-.3822	-.3354	-.4366
-.450	-.5657	-.4115	-.3408	-.5402	-.3872
-.300	-.553	-.2853	-.3491	-.2897	-.2737
-.150	.0357	-.3116	-.4418	-.3490	-.3226
.000	-.0459	-.1221	-.2745	-.4095	-.3379
.150	-.1738	-.1678	-.4527	-.3412	-.4547
.300	.0130	-.3292	-.2517	-.2651	-.7489
.450	-.0437	-.1732	-.1624	-.1478	-.3330
.600	-.0622	-.1084	-.0991	-.0513	-.1040
.750	-.1572	-.0029	-.0345	.0735	-.0065

MACH (1) = .165 ALPHA (2) = .015 RN/L = 1.200 MACH = .165

DEFICIENT VARIABLE CP

SECTION (1) WING

Z/B	.0000	.3340	.5200	.6630	.8730
X/C					
-.900	-.2754	-.2036	-.1622	-.1821	-.2069
-.750	-.2755	-.2715	-.3705	-.3735	-.3627
-.600	-.1920	-.2312	-.2464	-.2111	-.3281
-.450	-.4211	-.2222	-.1492	-.3771	-.2547
-.300	-.2792	-.0624	-.1168	-.0963	-.1169
-.150	.1045	-.0913	-.2111	-.1066	-.0423
.000	-.1021	-.2859	-.5382	-.6070	-.5961
.150	-.2405	-.3071	-.5400	-.4095	-.5748
.300	-.0292	-.3769	-.3123	-.2898	-.8068
.450	-.0797	-.2100	-.2001	-.2223	-.3495
.600	-.0872	-.1256	-.1188	-.0958	-.1270
.750	-.1586	-.0393	-.0494	-.0154	-.0174

(RDYV457)

CA37-B B16CSF1 J42 WATE18 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (3) = 4.900 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900	-.2107	-.1014	-.1075	-.1428	-.2257
-.750	-.1311	-.1333	-.2480	-.2661	-.3299
-.600	-.0281	-.0680	-.0780	-.0673	-.2315
-.450	-.2270	-.0180	.0256	-.2265	-.1565
-.300	-.0391	.1545	.0890	.0781	-.0062
-.150	-.1978	.0959	-.0265	.1310	.1210
.000	-.1802	-.4771	-.0878	-.8309	-.9267
.150	-.3156	-.4260	-.6823	-.5254	-.7185
.300	-.0709	-.1301	-.4002	-.3514	-.7753
.450	-.1140	-.2424	-.2421	-.2597	-.3685
.600	-.1353	-.1489	-.1391	-.1544	-.1749
.750	-.1555	-.0373	-.0462	-.1036	-.0549

MACH (1) = .165 ALPHA (4) = 9.970 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900	-.0958	-.0186	-.0674	-.0977	-.2325
-.750	-.0004	-.0179	-.1136	-.1513	-.2888
-.600	.1102	.0853	.0615	.0416	-.1445
-.450	-.0593	.1438	.1793	-.0781	-.0572
-.300	.1227	.2400	.2280	.2003	.0618
-.150	.2886	.2252	.1607	.2929	.2491
.000	-.2499	-.6836	-1.0648	-1.0582	-1.1979
.150	-.4058	-.5425	-.7994	-.6290	-.7807
.300	-.0937	-.5404	-.4767	-.4145	-.6210
.450	-.1451	-.3137	-.3058	-.3205	-.4527
.600	-.1711	-.1879	-.1949	-.1848	-.2913
.750	-.1599	.0068	-.0736	-.1404	-.1420

MACH (1) = .165 ALPHA (5) = 14.990 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900	.0115	-.0531	-.0365	-.1112	-.3093
-.750	.1093	.0767	-.0236	-.1119	-.2746
-.600	.2216	.1941	.1592		-.1777
-.450	.2671	.2623	.2187		-.1169
-.300	.2506	.3251	.3268		.424

CASH-B B16C5H1 J42 W8TE18 WING TOTAL SURFACE (RDYV67)

MACH (1) = .165 ALPHA (5) = 14.990

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.150 .3787 .3183 .3021 .5685 .3230
.150 -.3047 -.7281 -1.1072 -1.3126 -2.5460
.300 -.4701 -.8157 -.8811 -.6858 -1.8089
.450 -.0820 -.8045 -.5986 -.5438 -1.2254
.600 -.1630 -.3674 -.4491 -.4875 -1.1810
.750 -.1758 -.2453 -.3004 -.3377 -.6082
.900 -.1877 -.0514 -.0956 -.2938 -.3897

MACH (1) = .165 ALPHA (6) = 19.985 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.150 .0498 -.1748 -.0648 -.1344 -.3673
.150 .1922 .1459 .0462 -.0497 -.2804
.300 .3031 .2564 .2335 .1829 -.0461
.450 .1567 .3528 .3862 .1544 .0755
.600 .3705 .4184 .4117 .3909 .1751
.750 .4633 .4074 .4299 .4368 .3377
.900 -.3606 -.8041 -.9039 -1.7192 -1.0438
.300 -.5555 -.8121 -1.0697 -1.2278 -.9894
.450 -.1648 -.7017 -.8046 -.9298 -.9024
.600 .2204 .4872 .6387 .6369 .7203
.750 .2031 .3717 .4340 .5646 .6230
.900 .2228 .1894 .2180 .4908 .4903

REFERENCE DATA

WAVE = 4.4120 IN.

WAVE = 43.5940 IN.

LEAF = 19.2300 IN.

LEAF = .0000 IN.

WAVE = 37.9350 IN.

WAVE = -.4050 IN.

SCALE = .0405

PARAMETRIC DATA

BETA = .000

PTN/P = 1.500

M/B = .246

BOFLAP = -18.000

ELEVON = .000

MACH (1) = .165

ALPHA (1) = -4.000

RV/L = 1.200

MACH = .165

SECTION (1) WING		DEPENDENT VARIABLE CP	
Z/B			
X/C			
-900	.0000	.3340	.9200 .6430 .8730
-750	.0000	.3340	.9200 .6430 .8730
-600	.0000	.3340	.9200 .6430 .8730
-450	.0000	.3340	.9200 .6430 .8730
-300	.0000	.3340	.9200 .6430 .8730
-150	.0000	.3340	.9200 .6430 .8730
0	.0000	.3340	.9200 .6430 .8730
150	.0000	.3340	.9200 .6430 .8730
300	.0000	.3340	.9200 .6430 .8730
450	.0000	.3340	.9200 .6430 .8730
600	.0000	.3340	.9200 .6430 .8730
750	.0000	.3340	.9200 .6430 .8730
900	.0000	.3340	.9200 .6430 .8730

SECTION (2) WING		DEPENDENT VARIABLE CP	
Z/B			
X/C			
-900	.0000	.3340	.9200 .6430 .8730
-750	.0000	.3340	.9200 .6430 .8730
-600	.0000	.3340	.9200 .6430 .8730
-450	.0000	.3340	.9200 .6430 .8730
-300	.0000	.3340	.9200 .6430 .8730
-150	.0000	.3340	.9200 .6430 .8730
0	.0000	.3340	.9200 .6430 .8730
150	.0000	.3340	.9200 .6430 .8730
300	.0000	.3340	.9200 .6430 .8730
450	.0000	.3340	.9200 .6430 .8730
600	.0000	.3340	.9200 .6430 .8730
750	.0000	.3340	.9200 .6430 .8730
900	.0000	.3340	.9200 .6430 .8730

(NOVW68)

CA57-B B18C5F1 J42 W07E18 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (3) = 5.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5.00 .6630 .8730

X/C

-.900	-.1609	-.1154	-.0913	-.1134	-.1975
-.750	-.1143	-.1200	-.2228	-.2511	-.2992
-.600	-.1005	-.1477	-.0706	-.0722	-.2082
-.450	-.3815	-.0725	.0089	-.2862	-.1280
-.300	-.1448	.0540	.0515	.0706	-.0048
-.150	.1626	.0470	-.0641	.1043	.1323
.000	-.1782	-.5011	-.9699	-.9483	-.9471
.300	-.3330	-.4807	-.8555	-.6188	-.7428
.450	-.0767	-.5504	-.4783	-.3905	-.7644
.600	-.1016	-.2864	-.2849	-.2625	-.3786
.750	-.1981	-.1559	-.1677	-.1032	-.1611
.900	-.1245	-.0085	-.0743	-.0003	-.0390

MACH (1) = .165 ALPHA (4) = 9.980 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.900	-.1017	-.0297	.0076	-.0380	-.1989
-.750	-.0328	-.0194	-.1049	-.1367	-.2594
-.600	.0032	-.0369	.0504	.0424	-.1291
-.450	-.2570	.0679	.1414	-.1638	-.0304
-.300	.0079	.1875	.1950	.2051	.0922
-.150	.2448	.1741	.0966	.2745	.2546
.000	-.2528	-.6934	-.11839	-.11910	-.13164
.300	-.4110	-.6119	-.9820	-.7308	-.8634
.450	-.1023	-.6700	-.5893	-.173	-.7303
.600	-.1384	-.3372	-.3611	-.4011	-.4530
.750	-.1401	-.1617	-.1530	-.1177	-.2593
.900	-.1274	.0519	.0453	.0291	-.1027

MACH (1) = .165 ALPHA (5) = 15.010 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .5200 .6630 .8730

X/C

-.900	-.0440	-.0251	.0088	-.0502	-.2997
-.750	.0212	.0326	-.0465	-.0850	-.2532
-.600	.0811	.0324	.1190	.0971	-.0686
-.450	-.1573	.1664	.2432	-.0783	.0162
-.300	-.1340	.2707	.2801	.2734	.1428

DATE 08 OCT 74 TABULATED SOURCE DATA - CA57B

(RDYV68)

CA57-B B16C5F1 J42 W07E18 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (5) = 15.010

SECTION (1) WING DEPENDENT VARIABLE CP

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.130 .3149 .2480 .2254 .3586 .3197
 .130 -.3216 -.7963 -1.2509 -1.4202 -1.5964
 .300 -.4837 -.6855 -1.0952 -.8812 -1.2893
 .450 -.1089 -.7214 -.6347 -.6674 -1.2328
 .600 -.1697 -.3606 -.4502 -.5064 -.8501
 .750 -.1457 -.2203 -.2212 -.1249 -.4902
 .900 -.1649 -.0365 -.0168 -.0384 -.2488

MACH (1) = .165 ALPHA (6) = 19.990 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0099 .0018 -.0136 -.1075 -.4287
 -.750 .0875 .0923 .0049 -.0454 -.2807
 -.600 .1713 .1196 .1949 .1608 -.0327
 -.450 -.0372 .2738 .3362 .0560 .0794
 -.300 .2648 .3632 .3766 .3652 .2014
 -.150 .4095 .3383 .3641 .4333 .3579
 .150 -.3840 -.8817 -1.0930 -1.8729 -1.5738
 .300 -.3738 -.6798 -1.2940 -1.4714 -1.4445
 .450 -.1430 -.7603 -.9260 -1.2246 -1.3875
 .600 -.2137 -.4445 -.7876 -1.1527 -1.2299
 .750 -.1520 -.2802 -.3198 -.5649 -1.0141
 .900 -.1663 -.1084 -.0829 -.5072 -.6832



REFERENCE DATA

BREF = 4.4120 83.FT. XMRP = 43.5940 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4030 IN.
 SCALE = .0403

MACH (1) = .165 ALPHA (1) = -3.990 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/B .0000 .3340 .5200 .6630 .8730

X/C					
-.900	-.1867	-.1523	-.1147	-.1513	-.1783
-.750	-.1804	-.2103	-.3218	-.3461	-.3499
-.600	-.2660	-.2865	-.2560	-.2600	-.3644
-.450	-.5121	-.3001	-.2274	-.1984	-.3173
-.300	-.4097	-.1681	-.2489	-.2090	-.2097
-.150	.0337	-.2367	-.3531	-.3145	-.2543
.150	-.0415	-.1192	-.2580	-.4377	-.3170
.300	-.1587	-.1689	-.5233	-.3627	-.4312
.450	.0273	-.3751	-.2641	-.2696	-.7247
.600	-.0347	-.1579	-.1579	-.1730	-.3092
.750	-.0221	-.0676	-.0559	-.0107	-.0790
.900	-.1257	.0534	.0208	.1069	.0187

MACH (1) = .165 ALPHA (2) = .005 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/B .0000 .3340 .5200 .6630 .8730

X/C					
-.900	-.1727	-.1549	-.1041	-.1363	-.1677
-.750	-.1459	-.1788	-.2856	-.3078	-.3186
-.600	-.1804	-.2242	-.1828	-.1752	-.2816
-.450	-.4285	-.1934	-.1107	-.1039	-.2253
-.300	-.2863	-.0640	-.1052	-.0749	-.0885
-.150	.0938	-.0931	-.1928	-.0937	-.0225
.150	-.0923	-.2618	-.5398	-.6240	-.5589
.300	-.2266	-.3074	-.6263	-.4463	-.5572
.450	-.0139	-.4259	-.3264	-.3051	-.7908
.600	-.0629	-.1942	-.1764	-.1906	-.3267
.750	-.0501	-.0857	-.0825	-.0351	-.1073
.900	-.1246	.0169	.0007	.0807	.0062



(RDVW69)

CA37-B 216C3F1 J42 W0TE1A WING TOTAL SURFACE

MACH (1) = .165 ALPHA (3) = 5.010 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6730 .8730

X/C

-.900 -.1391 -.1137 -.0798 -.1132 -.1948
-.750 -.0917 -.1173 -.2197 -.2463 -.2960
-.600 -.0789 -.1359 -.0779 -.0811 -.2127
-.450 -.3304 -.0653 .0231 .0051 -.1273
-.300 -.1366 .0676 .0540 .0650 .0012
-.150 .1616 .0555 -.0562 .1041 .1314
.150 -.1749 -.4762 -.9141 -.8825 -.9161
.300 -.3218 -.4401 -.7695 -.5621 -.7102
.450 -.0631 -.4961 -.4171 .3516 -.7556
.600 -.0997 -.2482 -.2515 -.2453 -.3784
.750 -.1120 -.1275 -.1346 -.0978 -.1521
.900 -.1303 -.0048 -.0389 -.0162 -.0352

MACH (1) = .165 ALPHA (4) = 10.010 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.0914 -.0491 -.0237 -.0622 -.1974
-.750 -.0275 -.0369 -.1243 -.1610 -.2612
-.600 .0200 -.0499 .0247 .0120 -.1421
-.450 -.2244 .0598 .1357 .1147 -.0401
-.300 .0034 .1828 .1820 .1892 .0841
-.150 .2441 .1666 .0835 .2584 .2439
.150 -.2451 -.6855 -1.1521 -1.1273 -1.2745
.300 .4115 -.5895 -.9037 -.6649 -.8208
.450 -.0915 .6262 -.5283 -.4763 -.6808
.600 -.1335 -.3230 -.3350 -.3627 -.4346
.750 -.1541 -.1657 -.1679 -.0780 -.2538
.900 -.1418 .0335 .0002 .0381 -.1181

MACH (1) = .165 ALPHA (5) = 14.990 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.0206 -.0280 -.0028 -.0560 -.2699
-.750 .0357 .0315 -.0504 -.1176 -.2472
-.600 .0996 .0396 .1146 .0838 -.0675
-.450 -.1227 .1746 .2475 .1590 .0167
-.300 -.1370 .2773 .2793 .2635 .1439

DATE 08 OCT 74 TABULATED SOURCE DATA - C04578

(RDVW69)

C0457-B B16C5F1 J42 W07E16 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (5) = 14.990

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .3200 .6630 .6730

X/C

-.150 .3162 .2555 .2322 .3587 .3249
 .150 -.3089 -.7532 -1.1771 -1.3063 -1.5212
 .300 -.4715 -.6562 -.9024 -.7489 -1.3000
 .450 -.0840 -.6645 -.5943 -.5878 -1.2469
 .600 -.1561 -.3632 -.4252 -.4779 -.7988
 .750 -.1500 -.2194 -.2300 -.1712 -.4567
 .900 -.1675 -.0362 -.0246 -.0856 -.2275

MACH (1) = .165 ALPHA (6) = 19.975 AN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/B .0000 .3340 .3200 .6630 .6730

X/C

-.900 .0190 -.0194 -.0411 -.1282 -.3922
 -.750 .0883 .0717 -.0182 -.0986 -.2756
 -.600 .1860 .1149 .1837 .1253 -.0399
 -.450 -.0218 .2732 .3331 .2194 .0651
 -.300 .2597 .3604 .3677 .3710 .1979
 -.150 .4119 .3421 .3641 .4379 .3596
 .150 -.3631 -.6320 -1.0332 -1.7679 -1.3565
 .300 -.5705 -.6524 -1.1935 -1.2933 -1.2590
 .450 -.0760 -.7361 -.9015 -1.1053 -1.2036
 .600 -.2041 -.4469 -.7431 -.9396 -1.0459
 .750 -.1720 -.3185 -.3235 -.5907 -.8305
 .900 -.1697 -.1366 -.1201 -.5177 -.5825



REFERENCE DATA

MREF = 4.4120 93.FT. XMRP = 43.5940 IN.
 LREF = 19.2300 IN. YMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0403

MACH (1) = .165 ALPHA (1) = -4.025 RN/L = 1.200 MACH = .165

SECTION (1) WING

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.2061 -.1691 -.1201 -.1544 -.1833
 -.750 -.2080 -.2337 -.3298 -.3497 -.3518
 -.600 -.2401 -.2902 -.2674 -.2552 -.3695
 -.450 -.4134 -.2956 -.2278 -.2161 -.3225
 -.300 -.4075 -.1928 -.2602 -.2118 -.2142
 -.150 .0320 -.2318 -.3521 -.3136 -.2351
 .150 -.0354 -.0997 -.2243 -.3825 -.3108
 .300 -.1561 -.1480 -.4199 -.3163 -.4183
 .450 .0612 -.3044 -.2207 -.2386 -.7161
 .600 -.0394 -.1517 -.1326 -.1618 -.3091
 .750 -.0513 -.0869 -.0744 -.0254 -.0770
 .900 -.1262 .0303 -.0007 .0974 .0153

MACH (1) = .165 ALPHA (2) = -.010 RN/L = 1.200 MACH = .165

SECTION (1) WING

21/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.1897 -.1774 -.1335 -.1492 -.1717
 -.750 -.1659 -.1952 -.2964 -.3135 -.3193
 -.600 -.1525 -.2234 -.1949 -.1817 -.2963
 -.450 -.3491 -.2002 -.1182 -.1258 -.2315
 -.300 -.2813 -.0584 -.1046 -.0739 -.0912
 -.150 .0973 -.0851 -.1959 -.1026 -.0271
 .150 -.0790 -.2336 -.4763 -.5642 -.5506
 .300 -.2173 -.2739 -.5044 -.3756 -.5340
 .450 .0247 -.3504 -.2815 -.2603 -.7708
 .600 -.0579 -.1683 -.1613 -.1874 -.3256
 .750 -.0678 -.0907 -.0855 -.0589 -.0992
 .900 -.1295 -.0107 -.0202 .0219 .0070

PARAMETRIC DATA

BETA = .000 PTN/P = 1.000
 M/B = .266 BDFLAP = -18.000
 ELEVON = .000

(RDVVW70)

CA57-B B16C5F1 J42 W07E18 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (3) = 4.960 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.900	-.1338	-.1408	-.1053	-.1432	-.2046
-.750	-.1016	-.1348	-.2354	-.2584	-.3052
-.600	-.0682	-.1521	-.0979	-.0811	-.2204
-.450	-.2640	-.0768	.0139	-.0205	-.1418
-.300	-.1289	.0672	.0468	.0579	-.0083
-.150	.1340	.0490	-.0599	.0964	.1308
.150	-.1699	-.4566	-.8302	-.7864	-.8706
.300	-.3015	-.3966	-.6439	-.4973	-.6837
.450	-.0215	-.4163	-.3697	-.3283	-.7611
.600	-.1039	-.2290	-.2225	-.2337	-.3549
.750	-.1098	-.1240	-.1187	-.1199	-.1525
.900	-.1366	-.0339	-.0351	-.0737	-.0366

MACH (1) = .165 ALPHA (4) = 9.960 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.900	-.1002	-.0735	-.0823	-.1332	-.2080
-.750	-.0310	-.0550	-.1549	-.1976	-.2723
-.600	.0337	-.0615	.0086	.0196	-.1483
-.450	-.1669	.0559	.1277	.0853	-.0566
-.300	.0088	.1861	.1734	.1766	.0735
-.150	.2380	.1664	.0852	.2545	.2407
.150	-.2385	-.6903	-.1036	-1.0309	-1.1805
.300	-.3876	-.5139	-.7744	-.6050	-.7701
.450	-.0423	-.5269	-.4602	-.4075	-.6294
.600	-.1419	-.2998	-.2906	-.3005	-.3913
.750	-.1462	-.1733	-.1703	-.1588	-.2489
.900	-.1522	.0107	-.0674	-.1105	-.1130

MACH (1) = .165 ALPHA (5) = 15.000 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/8 .0000 .3340 .5200 .6630 .8730

X/C

-.900	-.0295	-.0501	-.0400	-.0999	-.2644
-.750	.0338	.0145	-.0724	-.1343	-.2467
-.600	.1144	.0318	.0954	.0768	-.0700
-.450	-.0690	.1713	.2455	.1493	.0220
-.300	.1442	.2818	.2771	.2614	.1438

(RDVW70)

WING TOTAL SURFACE

DATE 08 OCT 74 TABULATED SOURCE DATA - QAS7B

QAS7-B 816C5F1 J42 WOTE10

MACH (1) = .165 ALPHA (5) = 15.000

SECTION (1) WING DEPENDENT VARIABLE CP

21/R .0000 .3340 .5200 .6630 .8730

X/C

-.150 .3197 .2531 .2237 .3610 .3344
 .150 -.2998 -.7133 -1.1116 -1.1738 -1.5243
 .300 -.4480 -.5937 -.8355 -.6386 -1.3426
 .450 -.0449 -.5783 -.5538 -.4990 -1.1701
 .600 -.1556 -.3488 -.4095 -.4108 -.8442
 .750 -.1373 -.2185 -.2641 -.2846 -.5299
 .900 -.1818 -.0417 -.0719 -.2329 -.2918

MACH (1) = .165 ALPHA (6) = 19.995 RN/L = 1.200 MAC = .165

SECTION (1) WING DEPENDENT VARIABLE CP

21/R .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.0133 -.0374 -.0795 -.1539 -.3456
 -.750 .0784 .0444 -.0483 -.1286 -.2664
 -.600 .1943 .0993 .1635 .1131 -.0430
 -.450 .0240 .2615 .3218 .1991 .0607
 -.300 .2625 .3383 .3601 .3574 .1957
 -.150 .4136 .3369 .3578 .4363 .3691
 .150 -.3450 -.7825 -.9507 -1.5509 -1.1189
 .300 -.5403 -.5969 -1.0365 -1.0827 -1.0404
 .450 -.0750 -.6742 -.7681 -.8688 -.9651
 .600 -.1986 -.4632 -.6315 -.7567 -.8034
 .750 -.1817 -.3522 -.3974 -.5414 -.6311
 .900 -.1973 -.1814 -.1902 -.4279 -.4916



(RDVW71) (12 NOV 73)

CA57-B 812C5 J42 W07E18 WING TOTAL SURFACE

REFERENCE DATA

MREF = 4.4120 82. FT. XMRP = 43.5940 IN.
 LREF = 19.2300 IN. RMRP = .0000 IN.
 BREF = 37.9350 IN. ZMRP = -.4050 IN.
 SCALE = .0405

PARAMETRIC DATA

BETA = .000 PIN/P = 1.300
 M/B = .286 ELEVON = .000
 = .000

MACH (1) = .165 ALPHA (1) = -4.010 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

- .900 - .1450 - .1472 - .1007 - .1644 - .1868
 - .750 - .1971 - .2.83 - .3193 - .3661 - .3577
 - .600 - .2718 - .2982 - .2627 - .2665 - .3751
 - .450 - .3119 - .3089 - .2457 - .3943 - .3239
 - .300 - .4183 - .2126 - .2631 - .2210 - .2224
 - .150 - .0223 - .2484 - .3711 - .3311 - .2756
 .150 - .0410 - .1179 - .2700 - .4431 - .3216
 .300 - .1567 - .1662 - .3242 - .3601 - .4319
 .450 - .0521 - .3710 - .2634 - .2732 - .7291
 .600 - .0423 - .1657 - .1454 - .1822 - .3191
 .750 - .0055 - .0769 - .0636 - .0160 - .0923
 .900 - .1234 - .0446 - .0127 - .1112 - .0134

MACH (1) = .165 ALPHA (2) = .005 R/V/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

- .900 - .1263 - .1296 - .0830 - .1193 - .1632
 - .750 - .1518 - .1708 - .2723 - .3054 - .3146
 - .600 - .1832 - .2268 - .1751 - .1545 - .2809
 - .450 - .4169 - .1885 - .1188 - .3165 - .2188
 - .300 - .2813 - .0626 - .0999 - .0572 - .0865
 - .150 - .0895 - .0930 - .1973 - .0936 - .0277
 .150 - .0904 - .2616 - .3223 - .6301 - .5565
 .300 - .2153 - .3005 - .6173 - .4421 - .5513
 .450 - .0230 - .4163 - .3191 - .2988 - .7779
 .600 - .0666 - .1942 - .1724 - .1900 - .3318
 .750 - .0142 - .0818 - .0771 - .0260 - .0545
 .900 - .1048 - .0243 - .0066 - .0960 - .0133



CASE 00 OCT 74 TABULATED SOURCE DATA - C457B

(ADVW71)

MACH (1) = .165 ALPHA (3) = 4.990 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C

-.900	-.0822	-.0977	-.0734	-.1031	-.1940
-.750	-.0935	-.1155	-.2158	-.2465	-.2928
-.600	-.0785	-.1389	-.0707	-.0624	-.2089
-.450	-.3102	-.0686	.0047	-.2492	-.1297
-.300	-.1338	.0656	.0546	.0723	-.0701
-.150	.1591	.0550	-.0523	.1070	.1319
.150	-.1712	-.4745	-.8988	-.8755	-.5224
.300	-.3130	-.4530	-.7614	-.5556	-.7014
.450	.0154	-.4887	-.4181	-.3509	-.7585
.600	-.0592	-.2447	-.2399	-.2385	-.3765
.750	-.0777	-.1243	-.1293	-.0973	-.1358
.900	.0817	.0665	-.0339	-.0319	-.0351

MACH (1) = .165 ALPHA (4) = 10.015 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C

-.900	-.0483	-.0340	-.0241	-.0614	-.1949
-.750	-.0174	-.0228	-.2022	-.1030	-.2644
-.600	.0219	-.0544	.0254	.0319	-.1371
-.450	-.2543	.0596	.1254	-.1843	-.0364
-.300	.0121	.1867	.1861	.1904	.0788
-.150	.2391	.1666	.0838	.2601	.2423
.150	-.2461	-.6901	-1.1387	-1.1189	-1.2469
.300	-.3944	-.5724	-.8857	-.6648	-.8214
.450	-.0452	-.6129	-.5197	-.4700	-.6695
.600	-.1558	-.5168	-.3275	-.3478	-.4227
.750	-.1049	-.1549	-.1585	-.0699	-.2503
.900	.0249	-.0361	-.0010	.0485	-.1157

MACH (1) = .165 ALPHA (5) = 14.960 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/Y/B .0000 .3340 .5200 .6630 .8730

X/C

-.900	-.0026	-.0119	.0052	-.0622	-.2704
-.750	.0461	.0295	-.0435	-.0895	-.2385
-.600	.1077	.0340	.1179	.1018	-.0672
-.450	-.0996	.1825	.2484	-.1032	.0176
-.300	.1417	.2796	.2855	.2782	.1485

CAST-B 812C5 J42 W07E18 WING TOTAL SURFACE (RDVW71)

MACH (1) = .165 ALPHA (5) = 14.980

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/R 0.0000 .3340 .5200 .6630 .8730

X/C

-.150 .3170 .2576 .2325 .3644 .3250
 .150 -.3048 -.7434 -1.1708 -1.2895 -1.5139
 .300 -.4678 -.9336 -.9386 -.7216 -1.2649
 .450 -.0453 -.6308 -.5677 -.5748 -1.2551
 .600 -.1501 -.3564 -.4147 -.4649 -.7869
 .750 -.1186 -.2122 -.2203 -.1643 -.4209
 .900 .0370 -.0370 -.0134 -.0960 -.2245

MACH (1) = .165 ALPHA (6) = 19.970 RV/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z1/R 0.0000 .3340 .5200 .6630 .8730

X/C

-.900 .0163 -.0311 -.0434 -.1338 -.3930
 -.750 .0942 .0558 -.0205 -.0662 -.2745
 -.600 .1877 .0979 .1706 .1315 -.0496
 -.450 -.0091 .2636 .3236 .0067 .0616
 -.300 .2546 .3345 .3649 .3738 .1965
 -.150 .4031 .3360 .3527 .4294 .3489
 .150 -.3698 -.8417 -1.0402 -1.7642 -1.3315
 .300 -.5643 -.6400 -1.1584 -1.2287 -1.2279
 .450 -.0620 -.7344 -.6819 -1.0756 -1.1906
 .600 -.2246 -.4859 -.7477 -.9182 -1.0389
 .750 -.1620 -.3293 -.3231 -.5745 -.8085
 .900 -.0070 -.1738 -.1348 -.5110 -.5816



(80VW72) (12 NOV 73)

CAST-B B12C5 J42 W8TE18 WING TOTAL SURFACE

REFERENCE DATA

WREF = 4.4120 88.FT. WREF = 43.5940 IN.
LREF = 18.2300 IN. LREF = 0000 IN.
DREF = 37.9330 IN. DREF = -.4050 IN.
SCALE = .0405

PARAMETRIC DATA

BETA = .000 PTN/P = 1.000
H/B = .286 ELEVON = .000
= .000

MACH (1) = .165 ALPHA (1) = -3.985 AN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.1777 -.1504 -.1038 -.1630 -.1790
-.750 -.2054 -.2213 -.3139 -.3485 -.3559
-.600 -.2298 -.2871 -.2681 -.2867 -.3716
-.450 -.4054 -.2078 -.2400 -.0803 -.3153
-.300 -.3903 -.1801 -.2503 -.1911 -.2190
-.150 .0373 -.2228 -.3515 -.3194 -.2586
.150 -.0204 -.0892 -.2269 -.3688 -.3115
.300 -.1476 -.1330 -.3565 -.3089 -.4189
.450 .0699 -.2929 -.2097 -.2253 -.7121
.600 .0240 -.1431 -.1270 -.1610 -.3103
.750 .0023 .0681 .0606 .0170 .0809
.900 .1200 .0347 .0075 .1159 .0250

MACH (1) = .165 ALPHA (2) = .040 AN/L = 1.200 MACH = .165

SECTION (1) WING

DEPENDENT VARIABLE CP

Z/B .0000 .3340 .5200 .6630 .8730

X/C

-.900 -.1553 -.1457 -.1183 -.1436 -.1758
-.750 -.1688 -.1870 -.2842 -.3224 -.3260
-.600 -.1549 -.2302 -.1937 -.1897 -.2975
-.450 -.3321 -.1929 -.1219 -.1167 -.2316
-.300 -.2702 .0486 .1034 .0834 .0958
-.150 .0973 .0847 .2543 .1087 .0311
.150 .0739 .2362 .4832 .5676 .5455
.300 .2138 .2639 .4487 .3691 .5375
.450 .0355 .3254 .2620 .2498 .7858
.600 -.5522 .1672 .1640 .1873 .3359
.750 .0292 .0797 .0784 .0135 .0948
.900 .0866 .0074 .0107 .0105 .0101

DATE 08 OCT 74 TABULATED SOURCE DATA - CASHB

(ROW 12)

CASHB B12C3 J42 WATE18 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (3) = 4.955 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/YE .0000 .3340 .5200 .6630 .8730

X/C
 - 900 - .1208 - .1182 - .0936 - .1377 - 2048
 - 750 - .1068 - .1296 - .2360 - .2764 - 3126
 - 600 - .0639 - .1341 - .0989 - .0959 - 2233
 - 450 - .2500 - .0765 - .0050 - .0101 - .1391
 - 300 - .1257 - .0734 - .0443 - .0525 - .2154
 - 150 - .1544 - .0510 - .0638 - .0655 - .2775
 150 - .1657 - .4833 - .8272 - .7502 - .8726
 300 - .3013 - .3847 - .6326 - .5527 - .6855
 450 - .0138 - .4011 - .3522 - .3156 - .7654
 600 - .0972 - .2245 - .2217 - .2340 - .3639
 750 - .0797 - .1169 - .1172 - .1243 - .1450
 900 - .0457 - .0357 - .2338 - .0459 - .0371

MACH (1) = .165 ALPHA (4) = 10.335 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/YE .0000 .3340 .5200 .6630 .8730

X/C
 - 900 - .0615 - .3519 - .0724 - .1204 - .2012
 - 750 - .1287 - .0494 - .1470 - .1934 - .2675
 - 600 - .0375 - .0562 - .0215 - .0569 - .1457
 - 450 - .1431 - .0601 - .1170 - .1015 - .2457
 - 300 - .0132 - .1932 - .1775 - .1401 - .0757
 - 150 - .0337 - .1771 - .0643 - .0672 - .2425
 150 - .2326 - .6367 - .1299 - .1350 - .1132
 300 - .3845 - .5145 - .7544 - .5567 - .7631
 450 - .0337 - .5136 - .4501 - .3497 - .6199
 600 - .1331 - .2849 - .2798 - .1863 - .3906
 750 - .1161 - .1621 - .1602 - .1526 - .2414
 900 - .0176 - .0145 - .0548 - .0971 - .1114

MACH (1) = .165 ALPHA (5) = 14.995 RN/L = 1.200 MACH = .165

SECTION (1) WING DEPENDENT VARIABLE CP

Z/YE .0000 .3340 .5200 .6630 .8730

X/C
 - 900 - .0197 - .0396 - .0317 - .0925 - 2667
 - 750 - .0397 - .0202 - .0637 - .1209 - 2453
 - 600 - .1275 - .0303 - .1121 - .0658 - .0671
 - 450 - .0545 - .1695 - .2393 - .1420 - .0142
 - 300 - .1447 - .2875 - .2028 - .2600 - 1447



DATE 08 OCT 74 TABULATED SOURCE DATA - CA57B

(ROW72)

CA57-B B12C5 J42 WOTE18 WING TOTAL SURFACE

MACH (1) = .165 ALPHA (5) = 14.995

SECTION (1) WING DEPENDENT VARIABLE CP

R1/R0 .0000 .3340 .5200 .6630 .8730

X/C

-.150 .3256 .2606 .2331 .3634 .3366
 .150 -.2805 -.0983 -1.0318 -1.1661 -1.4771
 .300 -.4442 -.1743 -.0034 -.6216 -1.2877
 .450 -.0424 -.5668 -.3400 -.4978 -1.1745
 .600 -.1383 -.3336 -.3917 -.4106 -.6207
 .750 -.1263 -.2038 -.2495 -.2712 -.5241
 .900 .0202 -.0502 -.0662 -.2280 -.2827

MACH (1) = .165 ALPHA (6) = 20.000 RN/L = 1.000 MACH = .05

SECTION (1) WING DEPENDENT VARIABLE CP

R1/R0 .0000 .3340 .5200 .6630 .8730

X/C

-.900 .0174 -.0459 -.0760 -.1582 -.3445
 -.750 .0894 .0458 -.0411 -.1054 -.2566
 -.600 .1890 .0898 .1685 .1116 -.0419
 -.450 .0354 .2667 .3177 .2184 .0636
 -.300 .2605 .3605 .3621 .3426 .2028
 -.150 .4114 .3595 .3584 .4355 .3708
 .150 -.3437 -.7837 -.9480 -1.5647 -1.1167
 .300 -.5416 -.5901 -1.0213 -1.0548 -1.0261
 .450 -.0724 .6630 .7591 -.8554 -.9623
 .600 -.2149 -.4643 -.6355 -.7583 -.7889
 .750 -.1591 .3472 .3934 .5281 .6230
 .900 -.0019 -.1877 -.1901 -.4277 -.5080